Southeast Strategic Regional Coastal Monitoring Programme

ANNUAL REPORT
2006

Beachy Head to Selsey Bill

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Author: D. Amos

Reference: X:\26105_St_Monitoring\Reports\Annual_Reports\Cell_4d\2006\SDCG_Annual_Report_May05_Apr06.doc

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<th>D. Amos</th>
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<th>B. Curtis</th>
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1. Introduction

This Annual Report provides an analytical overview of beach changes and wave and tidal measurements since the commencement of the Southeast Strategic Regional Coastal Monitoring Programme.

The first beach surveys took place during the spring of 2003 and changes are reported to spring 2006. This provides a short time base over which beach changes have been monitored, therefore a detailed interpretation and decision-making is not advisable on the basis of these short-term changes, since the changes may not be representative of longer-term trends. Comment is therefore limited to only those sites which show obvious (and probably real) short-term changes.

As detailed in Figure 1.1. below, profiled cross sectional areas have been calculated for each profile based on a ‘Master Profile’ or ‘Base profile’. In most cases this has been taken as either a line vertically down from the most landward start point of any given survey, i.e. where profiles have historically started, or if data coverage allows, a line vertically down from the backstop of the beach. This allows a common section of beach profile to be compared and a more accurate trend to be established. The lower boundary of the master profile has been set as Mean Low Water Neaps (MLWN) as appropriate for each Management Unit (MU), seawards to a point where it captures the majority of the profiles.

Figure 1.1- 2006 Annual Report Master Profile

Before each Annual Report, work is now undertaken to check and refine this ‘Master Profile’ in order to provide an as accurate approximation of the beach cross sectional area as possible.

Data is presented at four levels:

- Process cell summary of aggregated change over one year and from the most recent survey to the baseline survey (three years) carried out in 2003.
Management Unit overviews for beach changes over one year and from the most recent survey to the baseline survey (three years) carried out in 2003.
- Plotted time series of beach profiles
- Trend analysis of beach cross-section area

It is recommended that the user should firstly use the MU overview maps to identify areas of interest before looking more closely at the individual profile plots and trends. The MU overview provides an at-a-glance summary of changes during the past year. Colour-coded lines highlight areas of maximum change and identify profiles that might need closer examination.

It must be emphasised that this is only the third of a series of Annual Reports that will be produced throughout the duration of the programme, therefore changes identified in this report are only indicative of short-term trends. As the programme progresses, more data will become available enabling more detailed analysis to be carried out. Accordingly, this report should be considered as a preliminary assessment.

2. Hydrodynamic / Meteorological Data

   a) Waves

   (i) Measured waves

   A Directional WaveRider buoy was deployed off Rustington in July 2003. The wave buoy report for 2005 can be found in Annex A of this report.

   2005 saw four significant storms, namely:

   - 2\textsuperscript{nd} December, Hs 3.84m
   - 3\textsuperscript{rd} November, Hs 3.64m
   - 30\textsuperscript{th} December, Hs 3.35m
   - 25\textsuperscript{th} October, Hs 3.00m

   (ii) Synthetic waves

   Analysis of synthetic wave time series is not included in this report but will be included in the 2007 Annual Report.

   b) Tides

   There are no Regional Monitoring Programme tide gauges within the Selsey Bill to Beachy Head area at present. There will however be a new gauge installed on the existing tower situated off the coast of Rustington in West Sussex during the early stages of Phase 2 of the Programme in 2007 / 2008.

   c) Meteorological data

   There are currently no Regional Monitoring Programme meteorological stations within the Selsey Bill to Beachy Head area.
A meteorological station has been installed on Worthing Pier, but due to data quality and communication issues, hasn't been reported on at this time.

3. Survey Data - Topographic

Overall, the condition of sub-cell 4d can be considered as stable.

Dates of surveys are given in Annex E and a detailed topographic survey report is given in Annex F.

4. Survey Data - Bathymetric

Analysis of bathymetric data will commence in 2007, after a second baseline survey of the region has been undertaken.

5. Data Availability

Survey data is currently available from:

Worthing Borough Council
Property Services Section
Portland House
Richmond Road
Worthing
West Sussex
BN11 1HS

Tel: 01903 221376
E-mail mailto:strategic.monitoring@worthing.gov.uk

Aerial Photography is currently available for downloading via the project web site at www.channelcoast.org

Archived data is also continually being uploaded to the site.

6. Summary of Beach Surveys

**Topographic Surveys**

The following surveys were undertaken during the period covered by this report. All were undertaken using Aerial Photography at a scale of 1:3000 and Photogrammetry techniques to obtain profile information, except the 7th May survey that was undertaken using LiDAR.

- 7th & 8th March 2003*
- 13th July 2003 - Environment Agency ABMS Flight
• 23rd April 2004
• 22nd August 2004 - Environment Agency ABMS Flight
• 22nd April 2005 (MU's 1 - 8B)*
• 7th May 2005 (MU's 9B - MU18B)*
• 6th June 2005 (MU 9A)*
• 17th September 2005 (MU's 1 - MU2)
• 19th September 2005 (MU's 2A - MU10)
• 23rd September 2005 (MU's 12 - MU18B)
• 10th April 2006 (MU's 1 - 6)*
• 12th April 2006 (MU's 7 - 18B)*

7. **Beach Analysis**

Only those surveys marked with an asterisk (*) above have been used for establishing the % Change in Cross Sectional Area Maps.
8. Glossary of Terms

**Beach Backstop**
This maybe defined as a seawall, promenade or any other structure at the back of a beach. If no backstop structure exists, for the purposes of master profile analysis this is the perceived landward boundary of any given active beach.

**Coastal Process Cell**
The coast of the UK has been divided into a series of Major Coastal Cells, many with sub-cells. These sub-cells represent a practical subdivision of the coastline into lengths that follow sediment cell principles while enabling suitably sized groups to be formed to consider coastal defence issues at the strategic level. This provides the necessary framework for Operating Authorities to prepare Shoreline Management Plans (SMP’s).

**Cross-Sectional Area**
The cross-sectional area is the area between any given survey and the master profile.

**Foreshore Change Parameter**
A single number that describes whether the beach is advancing, stable or retreating and steepening, stable or flattening. A more detailed description of this parameter can be found in the Explanatory Notes.

**Management Unit**
A management unit is a length of shoreline with coherent characteristics in terms of natural coastal processes, land use and coastal defence.

**Master Profile**
The Master Profile is the boundary or datum, which any given profile is measured against. Each profile has a unique Master Profile, with a lower boundary of Mean Low Water Neaps (MLWN), that allows only the active beach cross-section of each survey to be measured and compared against other surveys.
Profile
A profile is cross-section through a beach; normal to the shoreline, where repeatable topographic, hydrographic and LIDAR surveys can be undertaken in order for changes in beach level to be observed. In the South Downs Coastal Group Region, nearly 1500, 1km profiles exist at an average spacing of 50m. Different types of profiles are surveyed at different times - interim profiles (those at 200m spacing) are surveyed in every survey, with baseline profiles (those at 50m spacing) only being surveyed when a beach management plan or repeat baseline survey is undertaken.

South Downs Coastal Group
The Coastal Group that is concerned with matters relating to the frontage between Beachy Head and Selsey Bill, or sub-cell 4d. All Coastal Groups are made up of Local Authority, County Council and other coastal stakeholders.
http://www.sdcg.org.uk/
Rustington Directional WaveRider Buoy

Location
OS: 506331E  93784N
WGS84: Latitude: 50°44.0365’N  Longitude: 00°29.6765’W

Water Depth
9.9m CD

Instrument Type
Datawell Directional WaveRider Buoy Mk III

Data Quality

<table>
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<th>C1(%)</th>
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Monthly Means

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<th>Hmax (m)</th>
<th>Tp (s)</th>
<th>Tz (s)</th>
<th>Direction (°)</th>
<th>SST (°C)</th>
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<td>4.0</td>
<td>179</td>
<td>5.4</td>
<td>30</td>
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</tbody>
</table>

Tables and plots of these values, together with the minimum and maximum values and the standard deviation are available on the website.

Highest events in 2005/6

| Date/Time          | Hs (m) | Tp (s) | Tz (s) | Dir. | Water level elevation (OD) | Tidal stage (hours re. HW) | Tidal range (m) | Tidal surge* (m) | Max. surge* (m) |
|--------------------|--------|--------|--------|------|----------------------------|----------------------------|-----------------|------------------|----------------|----------------|
| 02/12/2005 19:00   | 3.84   | 9.1    | 6.5    | 188  | -1.55                      | HW -4                      | 5.7             | 0.39             | 0.57           |
| 03/11/2005 13:00   | 3.64   | 8.3    | 6.7    | 218  | 2.68                       | HW -2                      | 5.7             | 0.24             | 0.54           |
| 30/12/2005 10:00   | 3.35   | 7.7    | 6.0    | 177  | 2.87                       | HW                         | 5.0             | 0.10             | 0.28           |
| 25/10/2005 04:00   | 3.00   | 7.7    | 5.7    | 215  | 1.42                       | HW                         | 2.6             | -0.15            | 0.21           |

* Tidal information is obtained from the nearest recording tide gauge (the National Network gauge at Newhaven). The surge shown is the residual at the time of the highest Hs. The maximum tidal surge is the largest positive surge during the storm event.
Distribution plots

The distribution of wave parameters is shown in the accompanying graphs of:
- Wave roses (Direction vs. $H_s$) from April 2005 to March 2006 and all measured data, as percentage of occurrence
- Percentage of occurrence of $H_s$, $T_p$, $T_z$ and Direction from April 2005 to March 2006
- Monthly time series of significant wave height (the red line is the storm threshold)
- Incidence of storms during the reporting period and all previous years. Storms are defined using the Peaks-over-Threshold method. The highest $H_s$ of each storm is shown.

Summary

The reporting year was dominated by a series of stormy periods in November and December, including a sustained period with $H_s$ around 3m for 36 hours in early December 2005. The remainder of the reporting period incurred no storms above 3m, in contrast to the last reporting year, where storms were experienced throughout the year. The storm waves were all from between south and southwesterly directions. In contrast to previous years, the two highest storms were accompanied by a storm surge of 0.5m at Newhaven, although the peak of the storm occurred at least 2 hours before High Water, when the surge was lower.

Acknowledgements

Tidal data were supplied by the British Oceanographic Data Centre as part of the function of the National Tidal and Sea Level Facility, hosted by the Proudman Oceanographic Laboratory and funded by DEFRA and the Natural Environment Research Council.
Direction vs. $H_s$ for July 2003 to June 2006 (all data)

Direction vs. $H_s$ for April 2005 to March 2006 (this reporting year)
Annex A                             Interim Wave Report                                  Rustington 2005/6

Storms at Rustington from Apr 2005 to Mar 2006

Storms at Rustington - all years
### Regional Coastal Monitoring - High Level Reporting - 2005/6 (Year 4)

**Annex E**

**Field data collection - SDCG**

<table>
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<th>Sub-cell</th>
<th>Mgt Unit</th>
<th>Aerial Survey No. 1 - ABMS (Jul / Aug)</th>
<th>Baseline (BMP)</th>
<th>Aerial Survey No. 2 (Sept / Oct)</th>
<th>Post-storm</th>
<th>Aerial Survey No. 3 (Mar)</th>
<th>LIDAR</th>
<th>Bathymetric surveys</th>
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<td></td>
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<td>Target</td>
<td>Completion</td>
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<td>Target</td>
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**Key:**
- Completed
- Pending
- Overdue
- Not required

**Notes:**
- Completion date is the date of receipt of data by the Lead Authority
- "Pending" refers to data which has been collected in the field, but is being processed

**Reasons for late/missing delivery:**
1. Abandoned Due to Bad weather and / unsuitable tide conditions
2. Only Contours still awaited
EXPLANATORY NOTES

1. Foreshore Change Parameter

The advantage of this parameter is that a single number (ranging from +6 to –6) gives an indication of whether the beach is advancing or retreating and whether it is steepening or flattening. It was used in FutureCoast to indicate the medium-term trend in beach evolution on a strategic basis.

The rationale behind the Parameter is that the most healthy state a beach can be in is to be advancing at the Mean High Water mark and at the Mean Low Water level and for the gradient to be flattening (beach steepening being generally associated with broadly erosive or regressive conditions).

There are three components to the Parameter:

- Upper beach – can be either advancing, retreating or no change
- Lower beach – can be either advancing, retreating or no change
- Gradient between upper beach and lower beach – can be either steepening, flattening or no change (referred to as “no rotation”)

These three components are derived directly from SANDS (profile analysis by chainage). The beach levels are Mean High Water (MHW) and Mean Low Water (MLW)\(^1\). For one profile line, the analysis finds the chainage at which MWH and MLW occur for every completed survey and also calculates the change in chainage between surveys. In this way, a time series of advance or retreat of MHW and MLW can be derived. Also as part of this analysis SANDS calculates the gradient between MHW and MLW and changes in gradient through time.

For SCRMP analysis, the two surveys used are the most recent springtime survey and the spring survey the previous year. This is because the beach is, theoretically, at its lowest volume in the spring.

The beach profile is then classified into one of 13 categories (see Table 1). Note that whilst +6 and –6 are considered the most and least healthy conditions respectively for a beach, some of the intermediate stages are not necessarily a true ranking in order.

For most beaches, suitable thresholds to be used in calculation of Foreshore Change Parameter are:

- Change in chainage <= 0.25 m is regarded as No Movement
- Change in gradient <= 0.05 is regarded as No Rotation

However, there may be local variations to these thresholds, particularly for flat, wide beaches.

\(^1\) Calculated as the average of MHWS and MLWS and the average of MLWS and MLWS. These levels have been selected as appropriate for SCRMP analysis; other levels can be chosen.
<table>
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<th>MHW</th>
<th>MLW</th>
<th>Inter-tidal (gradient)</th>
<th>Profile change</th>
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<td>Advance</td>
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<td>+ 5</td>
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<td>+ 4</td>
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<td>+ 3</td>
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<td>- 6</td>
<td>Retreat</td>
<td>Retreat</td>
<td>Steepening</td>
<td></td>
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Table 1. Classification of beach profile - Foreshore Change Parameter
2. Change in Cross-sectional Area (CSA)

The annual change in cross-sectional area is calculated as the difference in CSA between two surveys, expressed as a percentage change compared to the earlier CSA.

\[
\frac{CSA_1 - CSA_2}{CSA_2} \times 100 \quad \text{Eqn (1)}
\]

where \( CSA_1 \) = most recent springtime survey and \( CSA_2 \) = spring survey previous year. Therefore an annual change of \(-14\%\) represents erosion during the last year of \(14\%\) of the area of last year’s survey.
Annex F - Topographic Survey Report
Annex F - Topographic Survey Report

Background

Data collected since March 2003 has been collected in accordance with the National Specification for Surveying Services issued by the Environment Agency and adopted for all surveys undertaken as part of the Strategic Regional Monitoring Programme.

The Strategic Regional Monitoring Programme in the South Downs Coastal Group region has programmed 2 Aerial Flights per year, during March and October each year. In addition to these flights the Environment Agency, as part of their contribution to the programme, carry out the ABMS Flight in July / August each year.

The autumn flight has proved to be difficult to achieve due to tidal, light and weather working windows not coinciding. During the period covered by this report only the October 2005 flight has been undertaken.

Within the South Downs Coastal Group area only management units 4d-MU2, 4d-MU2A, 4d-MU3, 4d-MU5, 4d-MU8B & 4d-MU15B are designated ‘Beach Management’ sites. In addition to the two profile surveys undertaken per year, these sites have an extra Beach Management Plan (or repeat baseline) survey undertaken in conjunction with the ABMS flight. Additional profiles at a 50m spacing are collected, as is enough data to allow 0.5m contours to be generated by the survey contractor.

Condition of the South Downs Coastal Group Frontage (Selsey Bill to Beachy Head)

Analysis of the data between Spring 2005 and Spring 2006 shows that, on average there was a net gain of 7.1% in actual beach volume, across the entire region. For the period between Spring 2003 and Spring 2006 there was on average a net gain of 4.3% in actual beach volume, across the entire region.

Further details can be seen in the Beach Change maps that follow this report.

Condition of Individual Management Units

General

Analysis of the profiles has been carried out using the spring 2003, spring 2005 and spring 2006 surveys. This analysis has been used in producing the Beach Change Summary Sub-cell and Management Unit maps, which are sorted by Management Unit then year, in the pages following this report.

The cross-sectional area trends, calculations and beach profile plots for the analysed profiles can be found on the enclosed CD in the 'Analysis \ Topo' directory, under ‘CSA_Charts’, ‘CSA_Data’ and ‘Profile_Charts’ respectively for each Management Unit.

Green text below highlights areas of accretion, whilst red text highlights areas of erosion.
Unit 1 - Selsey Bill to Church Norton

Between April 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 8.8%; the largest gain was at profile 4d01433 where the cross sectional area increased by 24% or 17.3m². The largest decrease of 6.4% occurred at profile 4d01426, equating to a reduction of 5.6m² in cross-sectional area.

There were small losses recorded at various locations along the frontage, although most profiles recorded increases.

Between March 2003 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 7%; the greatest gain was an increase of 38.7% or 36.5m² at profile 4d01468 with the greatest loss being a decrease of 24.7% or 70m² at profile 4d01489.

The majority of losses occurred at the western end of the Management Unit.

Unit 2 - Church Norton to Pagham Harbour

Between April 2005 and April 2006 the unit was generally accreting with a net gain in beach cross sectional area of 5.5%; the greatest gain was an increase of 20.7% or 47.4m² at profile 4d01413 with the greatest loss being a decrease of 5.6% or 9.2m² at profile 4d01419.

The majority of profiles recorded gains over this period.

Between March 2003 and April 2006 the unit was generally stable with a slight net gain in beach cross sectional area of 4.6%; the highest gain was an increase of 29.8% or 72.8m² at profile 4d01405 with the greatest loss being a decrease of 10.9% or 53.5m² at profile 4d01411.

Losses and gains have occurred throughout the management unit over this period with the most significant losses occurring between 4d01409 and 4d01412, ranging from 6.8% to 10.8% at profile 4d01411, as mentioned above.

Unit 2A - Pagham Harbour to Pagham

Between April 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 12%; the greatest gain was a significant increase of 57.3% or 269.7m² at profile 4d01402 with the greatest loss being a decrease of 6.2% or 43m² at profile 4d01400.

The majority of profiles recorded gains over this period.

Between March 2003 and April 2006 the unit was generally stable with a slight net gain of beach cross sectional area of 4.2%; the greatest gain was an increase of 42.5% or 121.1m² at profile 4d01391 with the greatest loss being a decrease of 21.5% or 181.6m² at profile 4d01397.

Losses and gains have occurred throughout the management unit over this period.
**Unit 3 - Pagham to West Bognor Regis**
Between April 2005 and April 2006 the unit was generally stable with a slight net gain in beach cross sectional area of 4.1%; the highest gain was an increase of 6% or 21.3m$^2$ at profile 4d01375 with the smallest gain being an increase of 1.4% or 5.4m$^2$ at profile 4d01377.

All profiles recorded gains in this Management Unit over the given reporting period.

Between March 2003 and April 2006 the unit was generally stable with a slight net gain in beach cross sectional area of 1.4%; the highest gain was an increase of 4.4% or 21.5m$^2$ at profile 4d01362 with the greatest loss being a decrease of 2% or 7.7m$^2$ at profile 4d01375.

Only minor gains and losses were recorded in this management unit over this period.

**Unit 4 - West Bognor Regis to Elmer**
Between April 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 12.5%; the greatest gain was a significant increase of 37.6% or 47.3m$^2$ at profile 4d01318 with the greatest loss was a decrease of 1.8% or 1m$^2$ at profile 4d01346.

Only minor losses have occurred throughout the management unit over this period.

Between March 2003 and April 2006 the unit was generally stable with a slight net gain in beach cross sectional area of 0.7%; the greatest gain was an increase of 17.9% or 33.7m$^2$ at profile 4d01239 with the greatest loss being a decrease of 14.7% or 30m$^2$ at profile 4d01255.

Losses and gains have occurred throughout the management unit over this period with the most significant losses occurring between 4d01250 and 4d01283, ranging from 1% to 14.7% at profile 4d01255, as mentioned above.

**Unit 5 - Elmer**
Between April 2005 and April 2006 the unit was generally stable with a net gain in beach cross sectional area of 3.6%; the greatest gain was an increase of 8.8% or 15.4m$^2$ at profile 4d01154 with the greatest loss being a decrease of 2.9% or 13m$^2$ at profile 4d01162.

All profiles recorded gains except profile 4d01162, as mentioned above.

Between March 2003 and April 2006 the unit was eroding with a net loss in beach cross sectional area of 7.2%; the smallest loss was a decrease of 0.8% or 3.4m$^2$ at profile 4d01202 with the greatest loss being a decrease of 21.8% or 23m$^2$ at profile 4d01170.

All profiles recorded losses in this management unit over this period.
Unit 6 - Elmer to Littlehampton Harbour Mouth

Between April 2005 and April 2006 the unit was generally stable with a slight net gain in beach cross sectional area of 2.5%; the greatest gain was an increase of 25.8% or 23.9m² at profile 4d01148 with the greatest loss being a decrease of 9.9% or 19.3m² at profile 4d01119.

Losses and gains have occurred throughout this management unit over this period.

Between March 2003 and April 2006 the unit was eroding with a net loss in beach cross sectional area of 6.4%; the greatest gain was an increase of 7.2% at profile 4d01093 with the greatest loss being a significant decrease of 31.1% or 79.6m² at profile 4d01119.

Most profiles have recorded losses over this period, with the most significant occurring between 4d01105 and 4d01148, ranging from 1.6% to 31.1% at profile 4d01119, as mentioned above.

Unit 7 - Littlehampton Harbour Mouth to Rustington

Between April 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 7.2%; the greatest gain was an increase of 19.5% or 69.3m² at profile 4d01077 with the greatest loss being a decrease of 16.3% or 68.1m² at profile 4d01079.

All profiles recorded gains, except profile 4d01079, as mentioned above.

Between March 2003 and April 2006 the unit was accreting with a net gain in cross sectional area of 5.3%; the highest gain was a significant increase of 49.5% or 140.4m² at profile 4d01077 with the greatest loss being a decrease of 4.8% or 20.6m² at profile 4d01063.

Losses and gains have occurred throughout this management unit over this period, with most of the gains having occurred at the western end of the frontage.

Unit 8A - Rustington to Goring-by-Sea

Between April 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 7.9%; the greatest gain was an increase of 19.5% or 86.7m² at profile 4d00907 with the greatest loss being a decrease of 4.8% or 16.9m² at profile 4d00997.

Losses, albeit small ones have mostly occurred in the vicinity of 4d00997 over this period, with the majority of other profiles showing gains.

Between March 2003 and April 2006 the unit was generally stable with a slight net gain in beach cross sectional area of 4.3%; the greatest gain was a significant increase of 48.2% or 109.2m² at profile 4d00911, with the greatest loss being a decrease of 42% or 178.3m² at profile 4d00992.

Losses and gains have occurred throughout the management unit over this period, with most of the losses having occurred at the western end of the management unit.
Unit 8B - Goring-by-Sea to Lancing
Between April 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 10%; the greatest gain was an increase of 48% or 128.22m² at profile 4d00767, with the greatest loss being a decrease of 5.6% or 14m² at profile 4d00818.

Between March 2003 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 7.9%; the greatest gain was an increase of 45.1% or 105.6m² at profile 4d00763, with the greatest loss being a decrease of 23.5% or 93.4m² at profile 4d00846.

It should be noted that Phase 3 of the Shoreham to Lancing Scheme, that was completed in July 2005, can be attributed to the large gains in beach cross-sectional area at the eastern end of this frontage.

Unit 9A - Lancing to Shoreham Harbour (Western Arm)
Between June 2005 and April 2006 the unit was accreting with a net gain of beach cross sectional area of 6.3%; the greatest gain was an increase of 35.6% or 91.9m² at profile 4d00749, with the greatest loss being a decrease of 5.3% or 20.4m² at profile 4d00733.

Losses, albeit small ones have only occurred between 4d00733 and 4d00742 over this period, with all other profiles showing gains.

Between March 2003 and April 2006 the unit was accreting with a net gain of beach cross sectional area of 26%; the greatest gain was an increase of 81.8% or 180.4m² at profile 4d00736, with the greatest loss was a decrease of 1.4% or 10.3m² at profile 4d00652.

Other than profile 4d00652, as mentioned above, only profiles 4d00693 & 4d00696 recorded losses - both of 1%, all other profiles recorded gains over this period.

It should be noted that Phase 2 & 3 of the Shoreham to Lancing Scheme was completed in September 2004 & July 2005 respectively, hence the large increases in beach volumes along this frontage.

Unit 9B - Shoreham Harbour (Eastern Arm) to Aldrington
Between May 2005 and April 2006 the unit was generally stable with a slight net gain in beach cross sectional area of 3.2%; the greatest gain being an increase of 14.7% at profile 4d00636, with the greatest loss being a decrease of 3.3% at profile 4d00593.

Most of the gains occurred to profiles on the west of this frontage, from 4d00596 to 4d00639, with the exception of profiles 4d00611 & 4d00617, that both recorded minor losses of 1.2%.

Between March 2003 and April 2006 the unit was generally stable with a net gain of beach cross sectional area of 4.4%; the greatest gain being an increase of 24.1% or
39.1m$^2$ at profile 4d00620, with the greatest loss being a decrease of 17.6% at profile 4d00617.

Losses and gains have occurred throughout the management unit over this period, although a concentration of erosion ranging from 12.5% at profile 4d00671 to 17.6% at profile 4d00617 as mentioned above is apparent.

**Unit 10 - Aldrington to Brighton Marina (Western Arm)**

Between May 2005 and April 2006 the unit was generally stable with a slight net gain of beach cross sectional area of 3.1%; the greatest gain was an increase of 26.1% or 69.6m$^2$ at profile 4d00489 with the greatest loss being a decrease of 10.2% or 35.3m$^2$ at profile 4d00509.

Losses and gains have occurred throughout the management unit over this period.

Between March 2003 and April 2006 the unit was generally stable with a net gain of beach cross sectional area of 5.8%; the highest being an increase of 40.9% or 80.4m$^2$ at profile 4d00531, with the greatest loss being a decrease of 13.6% or 28.8m$^2$ at profile 4d00485.

Losses and gains have occurred throughout this management unit over this period, although the majority of profiles show signs of accretion.

**Unit 12 - Brighton Marina (Eastern Arm) to Saltdean**

Between May 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 9%; the greatest gain being an increase of 35.2% or 13.3m$^2$ at profile 4d00334, with the greatest loss being a decrease of 6.3% or 8.1m$^2$ at profile 4d00356.

Only minor losses have been recorded at various locations on this frontage, with the majority of profiles recording gains in cross-sectional area.

Between March 2003 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 12.5%; the greatest being an increase of 60.7% or 70.4m$^2$ at profile 4d00395, with the greatest loss being a decrease of 10.3% or 20.9m$^2$ at profile 4d00417.

Only localised, minor losses have been recorded over this period, with the majority of profiles recording gains.

It should be noted that a scheme to install a new rock revetment and seawall, between Brighton Marina and Ovingdean was completed in autumn 2004.

**Unit 13A - Telscombe Cliffs**

Between May 2005 and April 2006 the unit was generally stable with a slight net gain of beach cross sectional area of 3.4%; the greatest gain being an increase of 34.2% or 105.9m$^2$ at profile 4d00327 with the greatest loss being a decrease of 18% or 35.9m$^2$ at profile 4d00305.
50% of the profiles in this management unit recorded losses over this period, mostly occurring in the east of the frontage.

Between March 2003 and April 2006 the unit was eroding with a net loss of beach cross sectional area of 5.9%; the greatest gain being an increase of 5.6% or 20.5m² at profile 4d00317, with the greatest loss being a decrease of 31.6% at profile 4d00305.

Losses and gains have occurred throughout the management unit over this period.

**Unit 13B - Telscombe to Peacehaven Heights**

Between May 2005 and April 2006 the unit was generally stable with a slight net loss in beach cross sectional area of 2.4%; the greatest gain was an increase of 3.4% or 4.3m² at profile 4d00278, the greatest loss being a decrease of 9.9% or 14.5m² at profile 4d00292.

The majority of profiles recorded losses except the profiles between 4d00275 and 4d00281, that all produced marginal gains.

Between March 2003 and April 2006 the unit was accreting with a net gain of beach cross sectional area of 9.1%; the greatest gain being an increase of 21.6% or 13.7m² at profile 4d00281, with the smallest being an increase of 0.5% at profile 4d00292.

Gains have occurred throughout the management unit over this period with no losses being recorded.

**Unit 14 - Peacehaven Heights to Newhaven Harbour (Western Arm)**

Between May 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 19%; the greatest gain was a significant increase of 105.1% or 396.3m² at profile 4d00260, which is most likely due to an up-drift cliff fall in the vicinity. The greatest loss was a decrease of 10.8% at profile 4d00223, just west of the Newhaven Harbour Arm.

All profiles recorded gains except profile 4d00223, as mentioned above.

Between March 2003 and April 2006 the unit was generally stable with a slight net loss in beach cross sectional area of 3.6%; the greatest gain was an increase of 20.8% or 206.42m² at profile 4d00223 with the greatest loss being a decrease of 1.8% or 12.6m² at profile 4d00256.

Losses and gains have occurred throughout the management unit, although the majority of profiles have recorded gains in cross-sectional area, over this period.

**Unit 15A - Newhaven Harbour (Western Arm) to Tide Mills**

Between May 2005 and April 2006 the unit was generally stable with a slight net gain in beach cross sectional area of 3.7%; the greatest gain was an increase of 5.5% or 27.3m² at profile 4d00203 with the smallest gain being an increase of 2.6% at profile 4d00210.

All profiles recorded gains along the frontage over this period.
Between March 2003 and April 2006 the unit was generally stable with a slight net loss of beach cross sectional area of 4.2%; the greatest gain being an increase of 3.9% or 11.5m² at profile 4d00218 with the greatest loss being a decrease of 10.5% or 61.3m² at profile 4d00203.

Losses have occurred throughout the management unit over this period with only one of the three profiles in this unit profile recording a gain of 3.9% - profile 4d00218, as mentioned above.

**Unit 15B - Tide Mills to Seaford Head**

Between May 2005 and April 2006 the unit was stable with a slight net gain of beach cross sectional area of 4.3%; the greatest gain being an increase of 21.2% or 50m² at profile 4d00180, with the greatest loss being a decrease of 11.1% or 38.6m² at profile 4d00194.

All profiles west of profile 4d00129 through to 4d00151 recorded losses, ranging from 1.1% to 5.6%. The majority of profiles east of 4d00151 recorded gains, with the notable exceptions of profiles 4d00198 that lost 2.8% and 4d00194 that lost 11.1%, as mentioned above.

Between March 2003 and April 2006 the unit was accreting with a net gain of beach cross sectional area of 9.6%; the highest being an increase of 25.5% or 72.4m² at profile 4d00147, with the greatest loss being a decrease of 15.8% or 57.9m² at profile 4d00194.

All profiles west of profile 4d00188 through to 4d00198 recorded losses, ranging from 9.1% to 15.8% at profile 4d00194, as mentioned above. All other profiles recorded gains.

Note: Master Profile Lower Level = -0.9mODN rather than MLWN (-1.62mODN), this has been done to allow direct comparison across all surveys. The March 2003 data does not reach MLWN and is therefore significantly shorter than the other surveys.

**Unit 16 - Seaford Head to Cuckmere Haven**

Between May 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 7.1%; the greatest gain was an increase of 21.2% or 316.8m² at profile 4d00096 with the smallest gain being an increase of 1.5% or 18.5m² at profile 4d00085.

All profiles have recorded gains over this period.

From the data that was available for comparison in this Management Unit (1 Profile), between March 2003 and April 2006 profile 4d00115 accreted with a net gain in beach cross sectional area of 7.8%.

Note: Only one of the designated profiles' (4d00115) was collected in 2003, whereas from 2004 onwards all four profiles for this management unit were collected. After revisiting the 2003 photography to collect additional profiles to meet the baseline
specification, going back to collect these three missing profiles, following contractual problems, would not be economically viable.

**Unit 17 - Cuckmere Haven**

Between May 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 7.3%; the greatest gain being an increase of 16.7% or 87m² at profile 4d00053 with the greatest loss being a decrease of 0.1% or 0.4m² at profile 4d00067.

All profiles recorded gains over this period, except 4d00067, as mentioned above.

Between March 2003 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 5.9%; the greatest gain being an increase of 14.4% or 40.8m² at profile 4d00067 with the smallest gain being an increase of 1% or 5.4m² at profile 4d00077.

No losses have occurred in the management unit over this period.

**Unit 18A - Cuckmere Haven (East) to Birling Gap**

Between May 2005 and April 2006 the unit was accreting with a net gain in beach cross sectional area of 19.4%; the greatest gain was a significant increase of 59.4% or 381.1m² at profile 4d00050 with the greatest loss being a decrease of 1.2% or 3.5m² at profile 4d00026.

Profiles 4d00030 through to 4d00050 inclusive recorded gains ranging from 5.2% to 59.4% at profile 4d00050, as mentioned above, over this period.

Between March 2003 and April 2006 the unit was generally stable with a slight net loss in beach cross sectional area of 1.7%; the greatest gain was an increase of 6.3% or 25.6m² at profile 4d00030 with the greatest loss being a decrease of 4% or 26.9m² at profile 4d00046.

Minor losses and gains have occurred throughout this management unit over this period.

**Unit 18B - Birling Gap**

Between May 2005 and April 2006 the unit was stable with a slight net loss in beach cross sectional area of 4.8%; the greatest gain an increase of 12.2% or 29.4m² at profile 4d00016 with the greatest loss being a decrease of 2.6% or 11.8m² at profile 4d00022.

Losses and gains have occurred throughout this management unit over this period.

Between March 2003 and April 2006 the unit was generally stable with a slight net gain in beach cross sectional area of 1.9%; the greatest gain was increase of 4.7% or 19.8m² at profile 4d00022 with the greatest loss being a decrease of 0.9% or 2.4m² at profile 4d00016.

Losses and gains have occurred throughout this management unit over this period.
Average Annual % Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- No Change
  - Less than 5% (9)
  - 5 - 15% (12)
  - 16 - 30% (2)
  - >30% (0)

- Erosion
  - 16 - 30% (0)
  - >30% (0)

- Accretion
  - 5 - 15% (0)
  - 16 - 30% (2)
Average Annual % Change in Cross-sectional Area
Spring 2003 to Spring 2006

- >30% (0)
- 16 - 30% (1)
- 5 - 15% (10)
- Less than 5% (9)
- 5 - 15% (3)
- 16 - 30% (0)
- >30% (0)

Accretion
No Change
Erosion

Beach Change Summary - Spring 2003 to Spring 2006 (1 of 3)
SDCG - Selsey Bill to Goring-by-Sea
Average Annual % Change in Cross-sectional Area
Spring 2003 to Spring 2006

Accretion
- >30% (0)
- 16 - 30% (1)
- 5 - 15% (10)
- Less than 5% (9)

Erosion
- >30% (0)
- 16 - 30% (0)
- 5 - 15% (3)
- Less than 5% (9)
Average Annual % Change in Cross-sectional Area
Spring 2003 to Spring 2006

Accretion
- >30% (0)
- 16 - 30% (1)
- 5 - 15% (10)

No Change
- Less than 5% (9)
- 5 - 15% (3)

Erosion
- 16 - 30% (0)
- >30% (0)
% Change in Cross-Sectional Area

Spring 2005 to Spring 2006

Accretion

- >30% (0)
- 16 - 30% (6)
- 5 - 15% (8)

No Change

- Less than 5% (6)
- 5 - 15% (1)

Erosion

- 16 - 30% (0)
- >30% (0)
- All Others (0)
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30% (0)
- 16 - 30% (6)
- 5 - 15% (8)
- Less than 5% (6)
- 5 - 15% (1)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

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Condition of Management Unit 4d-MU1 - Beach Change (2 of 2)
SDCG - Selsey Bill to Church Norton
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

Accretion
>30% (1)
16 - 30% (7)
5 - 15% (5)

No Change
Less than 5% (3)
5 - 15% (3)
16 - 30% (2)

Erosion
>30% (0)

All Others (0)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

Accretion
>30% (1)
16 - 30% (7)
5 - 15% (5)

No Change
Less than 5% (3)
5 - 15% (3)
16 - 30% (2)

Erosion
>30% (0)
All Others (0)
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% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

Accretion

- >30% (1)
- 16 - 30% (2)
- 5 - 15% (5)

No Change

- Less than 5% (5)
- 5 - 15% (4)

Erosion

- 16 - 30% (0)
- >30% (0)
- All Others (0)

Condition of Management Unit 4d-MU2 - Beach Change (1 of 2)
SDCG - Church Norton to Pagham Harbour
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30%   (2)
- 16 - 30%  (1)
- 5 - 15%  (3)
- Less than 5%  (3)
- 5 - 15%  (1)
- 16 - 30%  (0)
- >30%   (0)
- All Others   (0)
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Condition of Management Unit 4d-MU2A - Beach Change

SDCG - Pagham Harbour to Pagham

% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

-30%   (2)
16  - 30%  (1)
5  - 15%  (1)
Less than 5%   (1)
5  - 15%  (2)
16  - 30%  (3)
>30%   (0)
All Others   (0)
Condition of Management Unit 4d-MU3 - Beach Change (1 of 2)

% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30% (0)
- 16 - 30% (0)
- 5 - 15% (5)
- No Change
  - Less than 5% (9)
  - 5 - 15% (0)
- Erosion
  - 16 - 30% (0)
- >30% (0)
- All Others (0)

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SDCG - Pagham to West Bognor Regis
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

Accretion

- >30% (0)
- 16 - 30% (0)
- 5 - 15% (5)

No Change

- Less than 5% (9)
- 5 - 15% (0)

Erosion

- 16 - 30% (0)
- >30% (0)
- All Others (0)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (0)
- 16 - 30% (0)
- 5 - 15% (0)
- Less than 5% (14)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30%   (4)
- 16  - 30%  (14)
- 5  - 15%  (21)
- Less than 5%   (10)
- 5  - 15%   (0)
- 16  - 30%   (0)
- >30%   (0)
- All Others   (0)

Actual m2 Change in Cross-Sectional Area
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

-31          4d01331
-30          4d01330
-16          4d01330
-13          4d01330
-8           4d01330
0            4d01330
5            4d01330
16           4d01330
30%          4d01330
>30%         4d01330
No Change
Less than 5% (21)
5 - 15% (11)
16 - 30% (0)
All Others (0)

Condition of Management Unit 4d-MU4 - Beach Change (1 of 4)
Southeast Strategic Regional Coastal Monitoring Programme
SDCG - West Bognor Regis to Elmer
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30%: (0)
- 16 - 30%: (0)
- 5 - 15%: (5)
- Less than 5%: (5)
- 5 - 15%: (0)
- 16 - 30%: (0)
- >30%: (0)
- All Others: (0)

Condition of Management Unit 4d-MU5 - Beach Change
SDCG - Elmer
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

-30% - 30% (0)
-15% - 15% (0)
Less than 5% (5)
5 - 15% (4)
16 - 30% (1)
>30% (0)
All Others (0)

Actual Change in Cross Sectional Area (m²)

Condition of Management Unit 4d-MU5 - Beach Change
SDCG - Elmer
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- Greater than 30%: 0
- 16 - 30%: 1
- 5 - 15%: 7
- Less than 5%: 12
- 5 - 15%: 3
- 16 - 30%: 0
- Greater than 30%: 0
- All Others: 0

Condition of Management Unit 4d-MU6 - Beach Change (1 of 2)
SDCG - Elmer to Littlehampton Harbour Mouth
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

-35 (-35) (0)
-7 (-7) (1)
37 (37) (0)
40 (40) (0)
1 (1) (0)
28 (28) (0)
14 (14) (0)
3 (3) (0)
19 (19) (0)
119 (119) (0)

No Change
Accretion
Erosion
>30% (0)
16 - 30% (1)
5 - 15% (7)
Less than 5% (12)
5 - 15% (3)
16 - 30% (0)
>30% (0)
All Others (0)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (0)
- 16 - 30% (0)
- 5 - 15% (3)
- Less than 5% (9)
- 5 - 15% (8)
- 16 - 30% (2)
- >30% (1)

No Change (0)

Accretion

Erosion

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Condition of Management Unit 4d-MU6 - Beach Change (1 of 2)
SDCG - Elmer to Littlehampton Harbour Mouth
Condition of Management Unit 4d-MU6 - Beach Change (2 of 2)

% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (0)
- 16 - 30% (0)
- 5 - 15% (3)
- Less than 5% (9)
- 5 - 15% (8)
- 16 - 30% (2)
- >30% (1)
- All Others (0)

Actual Change in Cross Sectional Area (m2)

MU Boundary

Southeast Strategic Regional Coastal Monitoring Programme
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30%   (0)
- 16 - 30%   (3)
- 5 - 15%  (10)
- Less than 5%   (3)
- 5 - 15%  (0)
- 16 - 30%  (1)
- >30%   (0)
- All Others   (0)

MU Boundary
4d01399

Actual Change in Cross Sectional Area (m²)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (1)
- 16 - 30% (1)
- 5 - 15% (3)
- Less than 5% (12)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30%   (0)
- 16 - 30%   (5)
- 5 - 15%  (31)
- Less than 5%   (12)
- 5 - 15%  (0)
- 16 - 30% (0)
- >30%   (0)
- All Others (0)

Actual Change in Cross Sectional Area (m²)

Condition of Management Unit 4d-MU8A - Beach Change (1 of 4)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30%   (1)
- 16 - 30%   (7)
- 5 - 15%   (16)
- Less than 5%   (14)
- 5 - 15%   (7)
- 16 - 30%   (2)
- >30%   (1)

No Change

Accretion

Erosion

Actual Change in Cross Sectional Area (m²)

Condition of Management Unit 4d-MU8A - Beach Change (1 of 4)

Southeast Strategic Regional Coastal Monitoring Programme
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SDCG - Rustington to Goring-by-Sea
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- Greater than 30% (1)
- 16 - 30% (7)
- 5 - 15% (16)
- Less than 5% (14)
- 5 - 15% (7)
- 16 - 30% (2)
- Greater than 30% (1)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (1)
- 16 - 30% (7)
- 5 - 15% (16)
- Less than 5% (14)
- 5 - 15% (7)
- 16 - 30% (2)
- >30% (1)

Actual Change in Cross Sectional Area (m²)

Condition of Management Unit 4d-MU8A - Beach Change (3 of 4)
SDCG - Rustington to Goring-by-Sea
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% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (1)
- 16 - 30% (7)
- 5 - 15% (16)
- Less than 5% (14)
- 5 - 15% (7)
- 16 - 30% (2)
- >30% (1)

Actual Change in Cross Sectional Area (m²)
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30% (4)
- 16 - 30% (3)
- 5 - 15% (16)
- Less than 5% (15)
- 5 - 15% (1)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

Condition of Management Unit 4d-MU8B - Beach Change (1 of 4)

Southeast Strategic Regional Coastal Monitoring Programme
Annual Report 2006

SDCG - Goring-by-Sea to Lancing
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30% (4)
- 16 - 30% (3)
- 5 - 15% (16)
- Less than 5% (15)
- 5 - 15% (1)
- 16 - 30% (0)
- >30% (0)
- All Others (0)
### % Change in Cross-Sectional Area

Spring 2003 to Spring 2006

<table>
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<tr>
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<th>Count</th>
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<td>(6)</td>
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<td>(3)</td>
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<td>(1)</td>
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</table>

**Actual Change in Cross Sectional Area (m²)**

**MU Boundary**

**Condition of Management Unit 4d-MU8B - Beach Change (4 of 4)**

SDCG - Goring-by-Sea to Lancing

Southeast Strategic Regional Coastal Monitoring Programme

Annual Report 2006
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30%: (1)
- 16 - 30%: (3)
- 5 - 15%: (16)
- Less than 5%: (16)
- 5 - 15%: (0)
- 16 - 30%: (0)
- >30%: (0)
- All Others: (0)

Southeast Strategic Regional Coastal Monitoring Programme
Annual Report 2006

SDCG - Lancing to Shoreham Harbour Arm (West)
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30% (1)
- 16 - 30% (3)
- 5 - 15% (16)
- Less than 5% (16)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30%: 1
- 16 - 30%: 3
- 5 - 15%: 16
- Less than 5%: 16
- 5 - 15%: 0
- 16 - 30%: 0
- >30%: 0
- All Others: 0

Southeast Strategic Regional Coastal Monitoring Programme
Annual Report 2006

Condition of Management Unit 4d-MU9A - Beach Change (4 of 4)
SDCG - Lancing to Shoreham Harbour Arm (West)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30%  (13)
- 16 - 30%  (5)
- 5 - 15%  (11)
- Less than 5%  (7)
- 5 - 15%  (0)
- 16 - 30%  (0)
- >30%  (0)
- All Others  (0)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (13)
- 16 - 30% (5)
- 5 - 15% (11)
- Less than 5% (7)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

>30% (13)
16 - 30% (5)
5 - 15% (11)
Less than 5% (7)
5 - 15% (0)
16 - 30% (0)
>30% (0)
All Others (0)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- Greater than 30% (13)
- 16 - 30% (5)
- 5 - 15% (11)
- Less than 5% (7)
- 5 - 15% (0)
- 16 - 30% (0)
- Greater than 30% (0)
- All Others (0)
### % Change in Cross-Sectional Area

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</tr>
<tr>
<td>&gt;30%</td>
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</tr>
<tr>
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</table>

#### Actual Change in Cross Sectional Area (m²)

- MU Boundary
- 4d01399
- Beach Change

---

**Condition of Management Unit 4d-MU9B - Beach Change (1 of 2)**

SDCG - Shoreham Harbour Arm (East) to Aldrington
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30% (0)
- 16 - 30% (1)
- 5 - 15% (5)
- Less than 5% (14)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

Southeast Strategic Regional Coastal Monitoring Programme
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Condition of Management Unit 4d-MU9B - Beach Change (2 of 2)
SDCG - Shoreham Harbour Arm (East) to Aldrington
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (0)
- 16 - 30% (4)
- 5 - 15% (5)
- Less than 5% (7)
- 5 - 15% (3)
- 16 - 30% (1)
- >30% (0)
- All Others (0)

Southeast Strategic Regional Coastal Monitoring Programme
Annual Report 2006

Condition of Management Unit 4d-MU9B - Beach Change (2 of 2)
SDCG - Shoreham Harbour Arm (East) to Aldrington
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

Accretion
- >30% (0)
- 16 - 30% (3)
- 5 - 15% (11)

No Change
- Less than 5% (16)
- 5 - 15% (7)
- 16 - 30% (0)
- >30% (0)

Erosion
- All Others (0)

Condition of Management Unit 4d-MU10 - Beach Change (1 of 4)
SDCG - Aldrington to Brighton Marina (Western Arm)

Southeast Strategic Regional Coastal Monitoring Programme
Annual Report 2006
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

Accretion
- >30% (1)
- 16 - 30% (6)
- 5 - 15% (12)

No Change
- Less than 5% (12)
- 5 - 15% (12)
- 16 - 30% (6)
- >30% (0)

Erosion
- All Others (0)

Actual Change in Cross-Sectional Area (m²)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

Accretion
- >30% (1)
- 16 - 30% (6)
- 5 - 15% (12)
- Less than 5% (12)

Erosion
- 5 - 15% (6)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

Actual Change in Cross Sectional Area (m²)
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

Accretion
- >30% (1)
- 16 - 30% (5)
- 5 - 15% (12)

No Change
- Less than 5% (8)
- 5 - 15% (1)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

Erosion
- >30% (0)
- All Others (0)

MU Boundary
3d01399
Actual Change in Cross Sectional Area (m2)

Southeast Strategic Regional Coastal Monitoring Programme
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Condition of Management Unit 4d-MU12 - Beach Change (1 of 3)
SDCG - Brighton Marina (Eastern Arm) to Saltdean
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

Accretion

- >30% (1)
- 16 - 30% (5)
- 5 - 15% (12)

No Change

- Less than 5% (8)
- 5 - 15% (1)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

Actual Change in Cross Sectional Area (m²)

Condition of Management Unit 4d-MU12 - Beach Change (2 of 3)
SDCG - Brighton Marina (Eastern Arm) to Saltdean
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

Accretion
>30% (1)
16 - 30% (5)
5 - 15% (12)

No Change
Less than 5% (8)
5 - 15% (1)
16 - 30% (0)
>30% (0)
All Others (0)

Actual Change in Cross Sectional Area (m²)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- **Accretion**
  - >30%  (5)
  - 16 - 30%  (4)
  - 5 - 15%  (7)
- **Erosion**
  - Less than 5%  (8)
  - 5 - 15%  (3)
  - 16 - 30%  (0)
  - >30%  (0)
  - All Others  (0)

Actual Change in Cross Sectional Area (m²)
Southeast Strategic Regional Coastal Monitoring Programme

Condition of Management Unit 4d-MU12 - Beach Change (3 of 3)

% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- Accretion
  - >30% (5)
  - 16 - 30% (4)
  - 5 - 15% (7)

- No Change
  - Less than 5% (8)
  - 5 - 15% (3)
  - 16 - 30% (0)
  - >30% (0)
  - All Others (0)

Actual Change in Cross-Sectional Area (m^2)

SDCG - Brighton Marina (Eastern Arm) to Saltdean
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

Accretion
>30% (1)
16 - 30% (0)
5 - 15% (1)
Less than 5% (3)
5 - 15% (0)
16 - 30% (1)
>30% (0)
All Others (0)

No Change

Condition of Management Unit 4d-MU13A - Beach Change
SDCG - Telscombe Cliffs
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

Accretion
>30% (0)
16 - 30% (2)
5 - 15% (6)
Less than 5% (2)
5 - 15% (0)
16 - 30% (0)
>30% (0)
All Others (0)

Erosion
No Change

Actual Change in Cross Sectional Area (m²)
Southeast Strategic Regional Coastal Monitoring Programme
Annual Report 2006

% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- Accretion
  - >30% (0)
  - 16 - 30% (2)
  - 5 - 15% (6)

- Erosion
  - Less than 5% (2)
  - 5 - 15% (0)
  - 16 - 30% (0)
  - >30% (0)
  - All Others (0)

Actual Change in Cross-Sectional Area (m2)

Condition of Management Unit 4d-MU13B - Beach Change (2 of 2)
SDCG - Telscombe to Peacshaven Heights
### % Change in Cross-Sectional Area

**Spring 2005 to Spring 2006**

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<th>Count</th>
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<tr>
<td>&gt;30% Erosion</td>
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<td>All Others</td>
<td>0</td>
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</tbody>
</table>

**Accretion:**

- >30% (2)
- 16 - 30% (0)
- 5 - 15% (2)
- Less than 5% (5)

**Erosion:**

- 5 - 15% (1)
- 16 - 30% (0)
- >30% (0)
- All Others (0)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

Accretion
>30% (0)
16 - 30% (1)
5 - 15% (1)
Less than 5% (8)
Erosion
5 - 15% (0)
16 - 30% (0)
>30% (0)
All Others (0)
% Change in Cross-Sectional Area

Spring 2005 to Spring 2006

Accretion
- >30% (0)
- 5 - 15% (1)
No Change
- Less than 5% (2)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

Erosion
- >30% (0)
- 5 - 15% (0)
- 16 - 30% (0)
- All Others (0)

Condition of Management Unit 4d-MU15A - Beach Change

SDCG - (Newhaven Harbour (West Arm) - Tide Mills)
### % Change in Cross-Sectional Area

<table>
<thead>
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<th>Condition</th>
<th>Count</th>
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<tr>
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<td>5 - 15%</td>
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<tr>
<td>&gt;30%</td>
<td>0</td>
</tr>
<tr>
<td>All Others</td>
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</table>

#### Condition of Management Unit 4d-MU15A - Beach Change

- **MU Boundary**: 4d01399
- **Actual Change in Cross Sectional Area (m²)**

**SDCG** - (Newhaven Harbour (West Arm) - Tide Mills)
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

<table>
<thead>
<tr>
<th>Change</th>
<th>Count</th>
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<tbody>
<tr>
<td>&gt;30%</td>
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<td>&gt;30%</td>
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<td>All Others</td>
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</table>

Southeast Strategic Regional Coastal Monitoring Programme
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Southeast Strategic Regional Coastal Monitoring Programme

% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30% (0)
- 16 - 30% (4)
- 5 - 15% (8)
- No Change
- Less than 5% (9)
- Erosion
- 5 - 15% (2)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

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Condition of Management Unit 4d-MU15B - Beach Change (3 of 3)
SDCG - Tide Mills to Seaford Head
Southeast Strategic Regional Coastal Monitoring Programme

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% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

-30%   (0)
16  - 30%  (8)
5  - 15%  (9)
Less than 5%   (2)
5  - 15%  (3)
16  - 30%  (1)
>30%   (0)

Actual Change in Cross-Sectional Area (m²)

Condition of Management Unit 4d-MU15B - Beach Change (1 of 3)
SDCG - Tide Mills to Seaford Head
### Condition of Management Unit 4d-MU15B - Beach Change (2 of 3)

#### % Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- **Accretion**
  - >30%   (0)
  - 16 - 30%  (8)
  - 5 - 15%  (9)
  - Less than 5%   (2)

- **Erosion**
  - 5 - 15%  (3)
  - 16 - 30%  (1)
  - >30%   (0)

**No Change**
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<td>All Others</td>
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</tbody>
</table>

Southeast Strategic Regional Coastal Monitoring Programme

Condition of Management Unit 4d-MU16 - Beach Change (1 of 2)

SDCG - Seaford Head to Cuckmere Haven
Condition of Management Unit 4d-MU16 - Beach Change (2 of 2)

Southeast Strategic Regional Coastal Monitoring Programme

% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30% (0)
- 16 - 30% (1)
- 5 - 15% (0)
- Less than 5% (3)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

MU Boundary

Actual Change in Cross-Sectional Area (m²)

SDCG - Seaford Head to Cuckmere Haven
Southeast Strategic Regional Coastal Monitoring Programme

% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (0)
- 16 - 30% (0)
- 5 - 15% (1)
- Less than 5% (0)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

Actual Change in Cross Sectional Area (m²)

Condition of Management Unit 4d-MU16 - Beach Change

SDCG - Seaford Head to Cuckmere Haven
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

Accretion
>30%  (0)
16  - 30%  (1)
5   - 15%  (4)
Less than 5%  (3)
5   - 15%  (0)
16  - 30%  (0)
>30%  (0)
No Change
All Others  (0)

Condition of Management Unit 4d-MU17 - Beach Change
SDCG - Cuckmere Haven
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% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30%  (0)
- 16  - 30%  (0)
- 5  - 15%  (5)
- Less than 5%  (3)
- 16  - 30%  (0)
- >30%  (0)
- All Others  (0)

Accretion
No Change
Erosion

MU Boundary

Actual Change in Cross Sectional Area (m2)

SDCG - Cuckmere Haven
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30%       (1)
- 16 - 30%   (2)
- 5 - 15%    (2)

No Change
Less than 5%   (1)
5 - 15%    (0)
16 - 30%   (0)
>30%       (0)
All Others  (0)
% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

- >30% (1)
- 16 - 30% (2)
- 5 - 15% (2)
- Less than 5% (1)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

Actual Change in Cross-Sectional Area (m²)
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (0)
- 16 - 30% (0)
- 5 - 15% (2)
- Less than 5% (4)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

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Condition of Management Unit 4d-MU18A - Beach Change (1 of 2)
SDCG - Cuckmere Haven (East) to Birling Gap
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30%: 0
- 16 - 30%: 0
- 5 - 15%: 2
- Less than 5%: 4
- 15%: 0
- 16 - 30%: 0
- >30%: 0
- All Others: 0

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% Change in Cross-Sectional Area
Spring 2005 to Spring 2006

Accretion
- >30% (0)
- 16 - 30% (0)
- 5 - 15% (1)

No Change
- Less than 5% (1)
- 5 - 15% (0)

Erosion
- 16 - 30% (0)
- >30% (0)

All Others (0)

Condition of Management Unit 4d-MU18B - Beach Change
SDCG - Birling Gap
% Change in Cross-Sectional Area
Spring 2003 to Spring 2006

- >30% (0)
- 16 - 30% (0)
- 5 - 15% (1)
- Less than 5% (1)
- 5 - 15% (0)
- 16 - 30% (0)
- >30% (0)
- All Others (0)

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Condition of Management Unit 4d-MU18B - Beach Change
SDCG - Birling Gap