Cover Photograph: St. Mary’s Harbour, Isles of Scilly, April 2007
Taken by N. Sykes, Plymouth Coastal Observatory.
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Start Point to Lizard Point

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Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009 – Start Point to Lizard Point

1. Introduction

Analysis presented in this report provides an overview of beach changes and wave and tidal measurements since the commencement of the Southwest Strategic Regional Coastal Monitoring Programme. The first beach surveys took place during the spring of 2007 and changes are reported until spring 2009. This provides a short time base over which beach changes have been monitored. 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.

Data are presented at several levels:
- Process cell summary of percentage and actual profile change from 2008 to 2009
- Process cell summary of percentage and actual profile change from 2007 to 2009
- Detailed beach profile change from 2008 to 2009
- Detailed beach profile change from 2007 to 2009
- DTM models from bathymetric surveys from 2007 to 2009
- Position of Mean High Water
- Surface sediment distribution
- Time series of beach profile graphs (on CD)
- Trend analysis of beach cross-sectional area (on CD)

The process cell summary maps provide an at-a-glance summary of the changes during the past year and over the longer term. It is recommended that the user should use the maps to identify areas of interest and then examine the individual profile plots and trends. Colour-coded lines highlight areas of maximum change and identify profiles which might need closer examination.

It must be noted that the colour coded lines are based on actual change as opposed to percentage change as is the case with similar reports published by the South East Regional Coastal Monitoring Programme. Percentage change is displayed in brackets following the profile name on each line.

Topographic baseline data has been used to extract the level of Mean High Water (MHW) from each baseline data set and sediment distribution maps are produced from the latest survey information.

It must be appreciated that the accuracies of each measurement system must be taken into account when drawing conclusions, particularly from any difference models. In the case of topographic difference models from RTK GPS surveys, the accuracy of each data point is ±0.03m and therefore differences of ±0.06m can generally be considered as "real", whilst smaller changes may be an artefact of the measuring system, and are considered to be "No Change". Difference plots show changes >±0.25m, which should be indicative of areas of genuinely measurable change. Smaller changes may also be present but these are filtered from the analysis to provide clarity. This report displays difference models only where detailed analysis suggests
that the changes are real but, nevertheless, the user should approach the results as indicative, unless reinforced overtime or with other information.

Where lidar has provided the source data sets, the modelling is less precise. Each lidar cell value has a plan position representative of a 1m² grid. It is not reasonable to expect to observe changes with positional accuracy of better than 1-2m therefore. Profiles of steep slopes may suggest that the changes “bounce” back and forth. This is an artefact of the accuracy of the source data. Lidar is particularly ineffective at identifying sharp edges or steep slopes e.g. cliffs, seawalls. Despite these limitations in accuracy the changes shown indicate an overview of profile change, but to a lower precision than the RTK data. The location of the regularly surveyed profiles superimposed on the difference plots indicates how representative these profiles might be of overall changes.

It must be emphasised that this is the first interim report of a series and that changes identified are indicative only of short-term trends. As the programme progresses, more detailed and meaningful reporting will be possible. Accordingly, this report should be considered as a preliminary assessment.

2. Hydrodynamic data

a. Waves
   A Directional WaveRider buoy was deployed at Looe on the 22nd June 2009. A wave report will be included in the report for 2010, when sufficient data has been collected.

b. Tides
   There are no Regional Monitoring Programme tide gauges in the Start Point to Lizard area.

3. Survey data – topographic

Dates of surveys are shown in Annex E and the detailed topographic survey report is given at Annex F.
4. Survey data – bathymetric

The first baseline bathymetric survey for Start Point to Lizard Point was completed between May 2007 and September 2008. No further analysis will be carried out until after the next baseline survey in 2011. For this reason DTMs for each management unit have been included in place of difference models

Annex A  N/A
Annex B  N/A
Annex C  N/A
Annex D  N/A
Annex E  High Level Report – field data collection (SDADCAG and CISCAG)
Annex F  Topographic Survey Report for Start Point to Lizard
Annex G  N/A

Explanatory Notes
## ARS3 High Level Report - Year 3 (2008/9)
### Field Data Collection
#### Topographic & Bathymetric

<table>
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**Key**
- Completed on time and accepted
- Overdue
- Surved but not submitted / Accepted
- Will not be surveyed
Annex F – Topographic Survey Report for Start Point to Lizard

1. Introduction

Analysis has been conducted for those sites where a minimum of four surveys have been recorded. In general, changes are measured relative to the Mean Low Water Springs (MLWS) level, although this is not been possible for much of the historic data at many of the sites.

A full time series of plotted beach profiles are shown superimposed and relative to a Master Profile for each profile location (on the accompanying CD). The Master Profile provides the basis for calculation of beach cross-section area changes. Where possible, identical depth boundaries have been used for all profiles within a Management Unit. However, even where this has not been possible, direct comparisons can be made for the beach cross sectional area at one profile over time, since the master profile is constant for each profile (Figure 1). In some instances, raising the lower depth of the Master Profile may reduce the overall cross sectional area of the profile. This may cause small changes in the beach profile to have a large impact on the percentage change. This effect has been taken into account in the analysis of change to beach profiles. The trend in cross-sectional area (CSA) is presented as a graph for each profile (Figure 2).

![Example Master Profile with CSA calculated from the surveyed GPS Profile](image)

**Figure 1:** Example Master Profile with CSA calculated from the surveyed GPS Profile
Figure 2: Example of Beach Profile Trend Analysis
1. Beach Cross-Sectional Area (CSA)
2. Replenishment Activities
3. Mathematically Derived Trend line

As part of the monitoring programme specification, each management unit receives a full topographic baseline survey once every 5 years, with the exception of BMP sites which receive an annual baseline. Baseline surveys include a full profile survey at 50m intervals and continuous spot height data collected at approximately 1m intervals across the whole beach to the level of MLWS. This continuous data also includes a feature code for each spot height data point recorded. Where possible the feature code data has been used to provide a sediment distribution map for each management unit.

Where there are at least two baseline surveys for each management unit a topographic difference model has been produced based on the spot height elevations. The raw spot height data has been processed into a grid model and successive models have been subtracted from one another to produce a difference model for the management unit. The spot height data from each survey has also been used to approximate the level of MHW (Mean High Water) and MLW along each management unit. The level of MHW in 2003, derived from historic lidar, has been included to highlight change. In some cases, where there is no topographic baseline data collected on foot the information described above may be derived from lidar data.
2. **Condition of process sub-cell**

The Beach Change Summary maps contain an at-a-glance condition of the whole of the Start Point to Lizard area, with the lines representing the average accretion, no change or erosion for each Management Unit.

Over the past year the greatest changes can be seen between Seaton and Par Sands, where the majority of the profiles are shown to be either eroding or accreting. The remainder of the management units have, on the whole, remained relatively stable with a lot of profiles exhibiting less than 5% change in cross-sectional area. Since the baseline surveys were carried out, the majority of the profiles have remained stable, and exhibit a pattern similar to the Spring to Spring survey results.

3. **Condition of individual Management Units**

**6cMU28: Salcombe**

**Spring 2008 to Spring 2009**
There has been no significant change in CSA at Salcombe since spring 2008.

**Baseline 2007 to Spring 2009**
Since the 2007 baseline survey all profiles have accreted material.

**6cMU30-2: Hope Cove**

**Spring 2008 to Spring 2009**
Over the past year the coastline has undergone some accretion.

**Baseline 2007 to Spring 2009**
The management unit has followed the same trend as that seen in the above Spring to Spring analysis.

**6cMU30-4: Thurlestone Sands**

**Spring 2008 to Spring 2009**
In the Southern part of the bay there is a pattern of erosion at the Northern section and accretion at the Southern end. To the North of the bay there has been little change.

**Baseline 2007 to Spring 2009**
The same trends as above are observed over the two year period between the 2007 baseline and 2009 spring survey.

**6cMU31-1: Bantham Sands**

**Spring 2008 to Spring 2009**
All profiles have accreted over the past year.

**Baseline 2007 to Spring 2009**
Since the 2007 baseline survey notable accretion has occurred along all profiles.
6cMU31-2: Bigbury-on-Sea

**Spring 2008 to Spring 2009**
The tombolo has accreted material over the past year, whilst the pocket beach situated to the north of the management unit has incurred erosion of 5%.

**Baseline 2007 to Spring 2009**
A similar pattern is observed in the longer-term, except that the pocket beach now exhibits accretion.

6cMU33: Wembury

**Spring 2008 to Spring 2009**
Since spring 2008 the coastline at Wembury has shown an increase in material of 6%.

**Baseline 2007 to Spring 2009**
The beach has continued to accrete over the two year period.

6cMU38: Kingsand Cawsand

**Spring 2008 to Spring 2009**
The management unit has experienced no significant change over the last year.

**Baseline 2007 to Spring 2009**
Since the 2007 baseline the management unit has not undergone any notable changes.

6d6D1-4: Seaton

**Spring 2008 to Spring 2009**
There have been isolated pockets of notable erosion throughout the management unit, in particular profile 6d00310, which is situated at the end of a section of mobile beach overlaying a rock platform.

**Baseline 2007 to Spring 2009**
Over the two year period the beach is generally stable but with continued erosion occurring around profile 6d00298.

6d6D1-6: Looe

**Spring 2008 to Spring 2009**
The small beach in front of the cliffs has predominantly shown accretion over the past year. The beach near the estuary entrance has remained stable.

**Baseline Spring 2007 to Spring 2009**
In the longer term, a similar pattern of accretion is seen along the cliff section. The mobile beach however, has undergone some erosion.
6d6D1-8: Talland Bay

Spring 2008 to Spring 2009
Over the last year the beach has accreted slightly.

Baseline 2007 to Spring 2009
The results are very similar to the Spring to Spring analysis, with continued accretion occurring within the management unit.

6d6D2-4: Par Sands

Spring 2008 to Spring 2009
The majority of profiles have experienced erosion.

Baseline 2007 to Spring 2009
All of the profiles exhibit a similar trend to the Spring to Spring analysis, with the exception of profile 6d00956 which has accreted material.

6d6D2-7: Carlyon Bay

Spring 2008 to Spring 2009
All profiles along the defended section have accreted, but erosion has occurred at the undefended eastern section.

Baseline 2007 to Spring 2009
Over the last two years the pattern has been erosion occurring at the eastern and western edges of the management unit and accretion taking place in the central section.

6d6D2-13: Pentewan Sands

Spring 2008 to Spring 2009
All profiles have shown negligible change over the past year.

Baseline 2007 to Spring 2009
The coastline along this management unit has remained stable.

6d6D2-15: Portmellon Beach

Spring 2008 to Spring 2009
Over the last year the management unit has eroded by 11%.

Baseline 2007 to Spring 2009
The majority of the erosion shown within this management unit has occurred in the past year.

6d6D2-17: Gorran Haven

Spring 2008 to Spring 2009
Some erosion has occurred over this management unit since the previous spring.
**Baseline 2007 to Spring 2009**
Some minor erosion has occurred but less than 5% of the beach CSA.

**6d6D3-2: Hemmick Beach**

**Spring 2008 to Spring 2009**
During the last year there have been no significant changes.

**Baseline 2007 to Spring 2009**
The profile has shown some accretion since 2007.

**6d6D3-4: Porthluney Cove**

**Spring 2008 to Spring 2009**
The western part of the management unit has remained stable over the past year, whilst the eastern section has undergone erosion of 6%.

**Baseline 2007 to Spring 2009**
The western section has remained relatively stable over the past two years. The eastern past of the management unit has experienced some accretion.

**6d6D3-6: Portholland**

**Spring 2008 to Spring 2009**
The profile in the western section has shown only very minor erosion, but more significant erosion has occurred at the eastern end.

**Baseline 2007 to Spring 2009**
The same results are observed over the two year period, suggesting that the majority of the change took place last year.

**6d6D3-10: Carne Beach**

**Spring 2008 to Spring 2009**
The beach has been relatively stable over the past year with some slight accretion.

**Baseline 2007 to Spring 2009**
Although the majority of the profiles have accreted material, over the past two years, profile 6d01750 has eroded.

**6d6D3-12: Portscatho**

**Spring 2008 to Spring 2009**
The surveyed section of the beach has shown little change since the previous Spring.

**Baseline 2007 to Spring 2009**
The central part of the management unit has shown some erosion since 2007. Whilst the southern most part of the management unit has accreted.
6d6D5-2: Swanpool

**Spring 2008 to Spring 2009**
All of the profiles within this management unit have eroded less than 5%, since the spring 2008 surveys.

**Baseline 2007 to Spring 2009**
Since the 2007 baseline survey CSA for all of the profiles within the management unit has changed very little.

6d6D5-4: Maenporth

**Spring 2008 to Spring 2009**
The management unit has eroded by 6% since the spring 2008 survey.

**Baseline 2007 to Spring 2009**
The coastline in this area has remained stable over the last two years.

6d6D5-12: Coverack

**Spring 2008 to Spring 2009**
Over the past year the southern part of the beach has undergone some erosion.

**Baseline 2007 to Spring 2009**
Since 2007 the short-term pattern is reversed, with overall erosion at the northern end of the bay and little change at the southern end.

6d6D5-14: Kennack Sands

**Spring 2008 to Spring 2009**
Since the spring 2008 survey the management unit has been stable.

**Baseline 2007 to Spring 2009**
Very little change has occurred within this management unit since 2007.

6d6D5-15: Kennack Sands

**Spring 2008 to Spring 2009**
All of the profiles within this management have shown very minor accretion.

**Baseline 2007 to Spring 2009**
The main section of the beach has accreted since 2007, whilst the remaining section has shown little change.
EXPLANATORY NOTES

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.

\[
\frac{\text{CSA}_1 - \text{CSA}_2}{\text{CSA}_2} \times 100 \quad \text{eqn (1)}
\]

Where \( \text{CSA}_1 \) = most recent springtime survey and \( \text{CSA}_2 \) = 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.

Net Sediment Calculation

The value derived from this calculation represents the volume change in m\(^3\) across each individual management unit over time. The initial volumes are derived from the Digital Terrain Models made for consecutive baseline topographic surveys. Both models are clipped to cover the same area, and a volume above the MLWS plane is calculated for each DTM. The net sediment change is calculated as

\[
\text{Vol}_1 - \text{Vol}_2 \quad \text{eqn (2)}
\]

Where \( \text{Vol}_1 \) = most recent DTM model volume and \( \text{Vol}_2 \) = earlier DTM model volume. Therefore a net change of –19730 m\(^3\) represents erosion since the earlier survey.
% Change in Cross-Sectional Area

Annual % Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- **Accretion**
  - > 30%
  - 15 - 30%
  - 5 - 15%
- **No Change**
  - Less than 5%
  - 5 - 15%
  - 15 - 30%
- **Erosion**
  - > 30%

Actual Annual Change in Cross-sectional Area (m²)

MU boundary

Beach Change Summary - Spring 2008 to Spring 2009

SDADCAG/CISCAG - South Devon and Dorset/Cornwall
Actual Change in Cross-Sectional Area

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²

- **No Change**
  - Less than 5 m²
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

- **Erosion**

Actual Annual Change in Cross-sectional Area (m²)
% Change in Cross-Sectional Area

Annual % Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 %
  - 15 - 30 %
  - 5 - 15 %

- **Erosion**
  - Less than 5 %
  - 5 - 15 %
  - 15 - 30 %
  - > 30 %

MU boundary

Actual Annual Change in Cross-sectional Area (m²)

- 7d01323 (3)
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU28 - Beach Change

SDADCAG - South Devon and Dorset

Annual Report 2009

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²
- **No Change**
- **Erosion**
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

MU boundary

Absolute Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

7d01323 (3 %)

Aerial Photography from 2007

> 30 m²

15 - 30 m²

5 - 15 m²

Less than 5 m²

Annual Change in Cross-sectional Area (%)

Erosion

Accretion

No Change

0 75 150 m

Annual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

6c00264 (5 %)
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU28 - MHW and MLW Contours

Contours
MHW Elevation: 1.65 OD
MLW Elevation: -1.65 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

SDADCAG - South Devon and Dorset
Aerial Photography from 2007
Survey Completed 29th August 2007

Not to be used for navigational purposes
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU30-2 - Beach Change

SDADCA - South Devon and Dorset

Aerial Photography from 2007

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- Accretion
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²
- No Change
- Erosion
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

Annual Change in Cross-sectional Area (%)

MU boundary

7d01323 (3 %)

Annual Change in Cross-sectional Area (Spring 2008 to Spring 2009)
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

Accretion
- > 30 m²
- 15 - 30 m²
- 5 - 15 m²
- Less than 5 m²

No Change
- 5 - 15 m²
- 15 - 30 m²
- > 30 m²

Erosion
- > 30 m²
- 15 - 30 m²

MU boundary

Annual Change in Cross-sectional Area (%)
Contours

MHW Elevation: 1.65 OD
MLW Elevation: -1.65 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU30-2 - Sediment Distribution

SDADCAG - South Devon and Dorset

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Sediment Type
- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 16th June 2007
Not to be used for navigational purposes
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- **Erosion**
  - 5 - 30 m²
  - > 30 m²

- **No Change**
  - 5 - 15 m²

- **Boundary**

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MU boundary

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Annual Change in Cross-sectional Area (%)

- 7d01323 (3%)
- 6c00524 (2%)
- 6c00513 (-3%)
- 6c00509 (9%)
- 6c00505 (5%)

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M u n i c i p a l i t y  U n i t  6 c M U 3 0 - 4 - B e a c h  C h a n g e  C I S C A G - C o r n w a l l
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU30-4 - MHW and MLW Contours

SDADCAG - South Devon and Dorset

Annual Report 2009

Contours

MHW Elevation: 1.65 OD
MLW Elevation: -1.65 OD

- MHW 2000
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

MHW 2000
MHW 2007
MLW 2007

±0 100 200 m
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 15th June 2007
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU30-4 - Bathymetric Survey

SDADCAG - South Devon and Dorset

Annual Report 2009

Elevation
Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-8 - -6
-10 - -8
-12 - -10
-20 - -12
-40 - -20

Aerial Photography from 2007
Survey Completed 28th August 2007

Not to be used for navigational purposes
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

Accretion
- > 30 m$^2$
- 15 - 30 m$^2$
- 5 - 15 m$^2$
- Less than 5 m$^2$

No Change
- 5 - 15 m$^2$
- 15 - 30 m$^2$
- > 30 m$^2$

Erosion

MU boundary

Annual Change in Cross-sectional Area (%)

Aerial Photography from 2007

0 310 620 m

Accretion
- > 30 m$^2$
- 15 - 30 m$^2$
- 5 - 15 m$^2$

No Change
- Less than 5 m$^2$

Erosion
- 15 - 30 m$^2$
- > 30 m$^2$

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- 7d01323 (3 %)
- 6c00592 (12 %)
- 6c00577 (16 %)
- 6c00574 (11 %)
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU31-1 - MHW and MLW Contours

SDADCAG - South Devon and Dorset

Contours

MHW Elevation: 1.65 OD
MLW Elevation: -1.65 OD

- MHW 1998/2001
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR
Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
- **Erosion**
  - Less than 5 m²
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

**No Change**

Aerial Photography from 2007

MU boundary

Annual Change in Cross-sectional Area (%)
**Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)**

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- **Erosion**
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

**No Change**

- 5 - 15 m²
- 15 - 30 m²
- > 30 m²

**Annual Change in Cross-sectional Area (%)**

- **MU boundary**
- **7d01323 (3%)**
- **6c00604 (7%)**
- **6c00619 (5%)**
- **6c00636 (3%)**

*SDADCAG - South Devon and Dorset*
Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

SDADCAG - South Devon and Dorset

Contours
MHW Elevation: 1.65 OD
MLW Elevation: -1.65 OD

- MHW 2001
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

MHW 2001
MHW 2007
MLW 2007

± 01 5 0 3 0 0 m

Management Unit 6cMU31-2 - MHW and MLW Contours
SDADCAG - South Devon and Dorset
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 1st September 2007

0 150 300 m
Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

Accretion
- > 30 m²
- 15 - 30 m²
- 5 - 15 m²
- Less than 5 m²

Erosion
- 5 - 15 m²
- 15 - 30 m²
- > 30 m²

No Change

MU boundary

7d01323 (3 %)

Annual Change in Cross-sectional Area (%)

Aerial Photography from 2007
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- **Erosion**
  - 15 - 30 m²
  - > 30 m²

- **No Change**

- **Annual Change in Cross-sectional Area (%)**

- **MU boundary**

- **7d01323 (3%)**

- **Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)**

Aerial Photography from 2007
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU33 - MHW and MLW Contours

SDADCAG - South Devon and Dorset

Annual Report 2009

Contours

MHW Elevation: 1.80 OD
MLW Elevation: -1.65 OD

- MHW 2001
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LIDAR
**Sediment Type**

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

**Aerial Photography from 2007**
Survey Completed 14th June 2007

**SDADCAG - South Devon and Dorset**
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU33 - Bathymetric Survey

SDADCAG - South Devon and Dorset

Annual Report 2009

Elevation
Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-7 - -6
-8 - -7
-9 - -8
-10 - -9
-11 - -10
-12 - -11
-13 - -12
-14 - -13
-15 - -14
-16 - -15
-17 - -16
-18 - -17
-19 - -18
-20 - -19
-21 - -20

Not to be used for navigational purposes

Aerial Photography from 2007
Survey Completed 15th September 2007

Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU38 - Beach Change

Aerial Photography from 2007

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- **Erosion**
  - 15 - 30 m²
  - > 30 m²

**No Change**

- 5 - 15 m²

Annual Change in Cross-sectional Area (%)

- 7d01323 (3%)

MU boundary

Annual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- 6c01304 (2%)

- 6c01297 (2%)
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- **Erosion**
  - 15 - 30 m²
  - > 30 m²

- **No Change**

**Annual Change in Cross-sectional Area (%)**
- 7d01323 (3%)

**Aerial Photography from 2007**
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU38 - MHW and MLW Contours

Aerial Photography from 2007
Historic Contours Derived from LiDAR

Contours

MHW Elevation: 1.73 OD
MLW Elevation: -1.72 OD

- MHW 1998
- MHW 2007
- MLW 2007
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6cMU38 - Sediment Distribution

Annual Report 2009

CISCAG - Cornwall

Aerial Photography from 2007
Survey Completed 15th June 2007

Sediment Type
- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

0 100 200 m
Annual Report 2009

CISCAG - Cornwall

Aerial Photography from 2007
Survey Completed 5th October 2007
Not to be used for navigational purposes

Elevation
Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-8 - -6
-10 - -8
-12 - -10
-20 - -12
-40 - -20

Management Unit 6cMU38 - Bathymetric Survey
Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- **Erosion**
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

**No Change**
- 5 - 15 m²
- Less than 5 m²

MU boundary

Annual Change in Cross-sectional Area (%)
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
- **No Change**
  - Less than 5 m²
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

**MU boundary**

**Annual Change in Cross-sectional Area (%)**

- 7d01323 (3 %)

Aerial Photography from 2007
Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

Management Unit 6d6D1-4 - MHW and MLW Contours

Contours

MHW Elevation: 1.75 OD
MLW Elevation: -1.75 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

MHW 1998
MHW 2007
MLW 2007

CISCAG - Cornwall
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D1-4 - Bathymetric Survey

Annual Report 2009

CISCAG - Cornwall

Elevation
Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-8 - -6
-10 - -8
-12 - -10
-20 - -12
-40 - -20

Aerial Photography from 2007
Survey Completed 30th May 2008

Not to be used for navigational purposes
Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

Accretion
- > 30 m²
- 15 - 30 m²
- 5 - 15 m²
- Less than 5 m²

No Change
- 5 - 15 m²
- 15 - 30 m²
- > 30 m²

Erosion
- Less than 5 m²
- 5 - 15 m²
- 15 - 30 m²
- > 30 m²

Annual Change in Cross-sectional Area (%)

MU boundary

7d01323 (3 %)

Annual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

Aerial Photography from 2007

0 275 550 m

Management Unit 6d6D1-6 - Beach Change
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D1-6 - Beach Change

Annual Report 2009

CISCAG - Cornwall

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- Accretion
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- Erosion
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

No Change
  - Less than 5 m²

Annual Change in Cross-sectional Area (%)

- MU boundary
- 7d01323 (3 %)

Annual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- > 30 m²
- 15 - 30 m²
- 5 - 15 m²
- Less than 5 m²

Aerial Photography from 2007

0 275 550 m
Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

CISCAG - Cornwall

Contours

MHW Elevation: 1.75 OD
MLW Elevation: -1.75 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR
Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
- **No Change**
  - Less than 5 m²
- **Erosion**
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

Annual Change in Cross-sectional Area (%)

MU boundary

7d01323 (3 %)

Annual Change in Cross-sectional Area (%)
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m$^2$
  - 15 - 30 m$^2$
  - 5 - 15 m$^2$

- **No Change**
  - Less than 5 m$^2$
  - 5 - 15 m$^2$

- **Erosion**
  - 15 - 30 m$^2$
  - > 30 m$^2$

Annual Change in Cross-sectional Area (%)

- 7d01323 (3 %)

MU boundary

Aerial Photography from 2007
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D1-8 - MHW and MLW Contours

Annual Report 2009

CISCAG - Cornwall

Contours

MHW Elevation : 1.75 OD
MLW Elevation : -1.75 OD

- MHW 1998
- MHW 2007
- MLW 2007

Historic Contours Derived from LiDAR
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D1-8 - Sediment Distribution

Annual Report 2009

CISCAG - Cornwall

**Sediment Type**

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 21st March 2007
Aerial Photography from 2007
Survey Completed 12th May 2008

Not to be used for navigational purposes
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D2-4 - MHW and MLW Contours

Annual Report 2009

CISCAG - Cornwall

Contours

MHW Elevation: 1.50 OD
MLW Elevation: -1.85 OD

- MHW 2000
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

MHW 2000
MLW 2007

±

0
100
200 m
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 20th March 2007
Aerial Photography from 2007
Survey Completed 5th November 2007

Not to be used for navigational purposes
Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

CISCAG - Cornwall

Management Unit 6d6D2-7 - Beach Change

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- Accretion
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- No Change
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

- Erosion
  - Less than 5 m²
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

7d01323 (3%)

Annual Change in Cross-sectional Area (%)

Aerial Photography from 2007

01 0 0 2 0 0 ±

Erosion

Accretion

No Change

> 30 m²

15 - 30 m²

5 - 15 m²

Less than 5 m²

5 - 15 m²

15 - 30 m²

> 30 m²

Annual Change in Cross-sectional Area (%)

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)
Contours

MHW Elevation: 1.50 OD
MLW Elevation: -1.85 OD

- MHW 1998
- MHW 2007
- MLW 2007
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D2-7 - Sediment Distribution

Annual Report 2009

CISCAG - Cornwall

Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 18th March 2007

0 100 200 m
Elevation
Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-8 - -6
-10 - -8
-12 - -10
-20 - -12
-40 - -20

Aerial Photography from 2007
Survey Completed 3rd November 2007

Not to be used for navigational purposes
Management Unit 6d6D2-13 - Beach Change

Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

Accretion
- > 30 m²
- 15 - 30 m²
- 5 - 15 m²
- Less than 5 m²

Erosion
- 5 - 15 m²
- 15 - 30 m²
- > 30 m²

No Change

Annual Change in Cross-sectional Area (%)

MU boundary

7d01323 (3 %)

Aerial Photography from 2007
### Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

<table>
<thead>
<tr>
<th>Category</th>
<th>Change in Cross-sectional Area (Baseline 2007 to Spring 2009)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accretion</strong></td>
<td></td>
</tr>
<tr>
<td>&gt; 30 m²</td>
<td></td>
</tr>
<tr>
<td>15 - 30 m²</td>
<td></td>
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<td>5 - 15 m²</td>
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<td>5 - 15 m²</td>
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<td>15 - 30 m²</td>
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<tr>
<td><strong>Erosion</strong></td>
<td></td>
</tr>
<tr>
<td>&gt; 30 m²</td>
<td></td>
</tr>
</tbody>
</table>

**Annual Change in Cross-sectional Area (%)**

- **MU boundary**
- **7d01323 (3%)**

**Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)**

- **6d01221 (0%)**
- **6d01225 (0%)**
- **6d01229 (0%)**
Contours

MHW Elevation: 1.80 OD
MLW Elevation: -1.70 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

MHW 1998
MHW 2007
MLW 2007

Contours

MHW Elevation: 1.80 OD
MLW Elevation: -1.70 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

MHW 1998
MHW 2007
MLW 2007

Contours

MHW Elevation: 1.80 OD
MLW Elevation: -1.70 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

MHW 1998
MHW 2007
MLW 2007
Sediment Type
- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 22nd March 2007
Not to be used for navigational purposes
**Contours**

MHW Elevation: 1.80 OD  
MLW Elevation: -1.70 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007  
Historic Contours Derived from LiDAR
**Sediment Type**

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction
Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

CISCAG - Cornwall

Management Unit 6d6D2-15 - Bathymetric Survey

Elevation
Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-8 - -6
-10 - -8
-12 - -10
-20 - -12
-40 - -20

Not to be used for navigational purposes
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D2-17 - Beach Change

CISCAG - Cornwall

Annual Report 2009

Aerial Photography from 2007

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- Accretion:
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
- No Change:
  - Less than 5 m²
  - 5 - 15 m²
- Erosion:
  - 15 - 30 m²
  - > 30 m²

Annual Change in Cross-sectional Area (%)

MU boundary

7d01323 (3 %)

6d01377 (3 %)
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D2-17 - Beach Change

Annual Report 2009

CISCAG - Cornwall

Aerial Photography from 2007

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²

- **No Change**
  - Less than 5 m²
  - 5 - 15 m²

- **Erosion**
  - 15 - 30 m²
  - > 30 m²

Annual Change in Cross-sectional Area (%)

- 7d01323 (3 %)
- 6d01377 (2 %)

MU boundary
**Southwest Strategic Regional Coastal Monitoring Programme**

**Management Unit 6d6D2-17 - MHW and MLW Contours**

**Annual Report 2009**

**Contours**

MHW Elevation: 1.80 OD  
MLW Elevation: -1.70 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

MHW 1998
MHW 2007
MLW 2007

±0.5

m
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 22nd March 2007

Mixture

Obstruction
Aerial Photography from 2007
Survey Completed 1st September 2007

Not to be used for navigational purposes
Management Unit 6D3-2 - Beach Change

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

Accretion
- > 30 m²
- 15 - 30 m²
- 5 - 15 m²

No Change
- Less than 5 m²
- 5 - 15 m²
- 15 - 30 m²
- > 30 m²

Erosion

MU boundary

Annual Change in Cross-sectional Area (%)

Aerial Photography from 2007
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²
- **Erosion**
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

**No Change**
- Less than 5 m²

MU boundary:
- 7d01323 (3 %)

Annual Change in Cross-sectional Area (%)

Aerial Photography from 2007.
Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 23rd March 2007
Aerial Photography from 2007
Survey Completed 30th August 2007

Not to be used for navigational purposes
Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

Condition of Management Unit 6d6D3-4 - Beach Change

CISCAG - Cornwall

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- **Erosion**
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

No Change

MU boundary

7d01323 (3 %)

Annual Change in Cross-sectional Area (%)

Aerial Photography from 2007

Annual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)
Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 23rd March 2007

0 50 100 m
Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

Management Unit 6d6D3-4 - Bathymetric Survey

CISCAG - Cornwall

Elevation Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-8 - -6
-10 - -8
-12 - -10
-20 - -12
-40 - -20

Aerial Photography from 2007
Survey Completed 29th August 2007

Not to be used for navigational purposes
### Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

<table>
<thead>
<tr>
<th>Change Type</th>
<th>Symbol</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Accretion</td>
<td>&gt; 30 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15 - 30 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 - 15 m²</td>
<td></td>
</tr>
<tr>
<td>No Change</td>
<td>Less than 5 m²</td>
<td></td>
</tr>
<tr>
<td>Erosion</td>
<td>5 - 15 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15 - 30 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt; 30 m²</td>
<td></td>
</tr>
</tbody>
</table>

#### MU Boundary

- Annual Change in Cross-sectional Area (%)
  - 7d01323 (3%)

#### Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- 6d0156 (7%)
- 6d01556 (7%)
- 6d01551 (2%)
- 6d01561 (2%)
- 7d01323 (3%)

#### Annual Report 2009

- CISCAG - Cornwall
- Management Unit 6d6D3-6 - Beach Change

#### Aerial Photography from 2007
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²
- **No Change**
  - 5 - 15 m²
  - 15 - 30 m²
- **Erosion**
  - > 30 m²

Annual Change in Cross-sectional Area (%):
- 7d01323 (3 %)

MU boundary

Aerial Photography from 2007 ± 0.55 0°
Contours

- MHW Elevation: 1.94 OD
- MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007

- Aerial Photography from 2007
- Historic Contours Derived from LiDAR
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D3-6 - Bathymetric Survey

Annual Report 2009

CISCAG - Cornwall

Elevation
Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-7 - -6
-8 - -7
-9 - -8
-10 - -9
-11 - -10
-12 - -11
-20 - -20
-40 - -40

Not to be used for navigational purposes

Aerial Photography from 2007
Survey Completed 22nd August 2007
Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- Accretion
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²
- No Change
- Erosion
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

MU boundary

Annual Change in Cross-sectional Area (%)
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²
- **No Change**
  - 5 - 15 m²
  - 15 - 30 m²
- **Erosion**
  - > 30 m²

MU boundary

Annual Change in Cross-sectional Area (%)

- 7d01323 (3 %)

Aerial Photography from 2007

Annual Report 2009

CISCAG - Cornwall

Management Unit 6d6D3-10 - Beach Change

CISCAG - Cornwall
Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007

Annual Report 2009

CISCAG - Cornwall

Contours

MHW 1998
MHW 2007
MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

0 100 200 m

Management Unit 6d6D3-10 - MHW and MLW Contours

CISCAG - Cornwall
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 18th March 2007

0 100 200 m
Elevation
Metres OD

-1 - 0
-2 - 1
-3 - 2
-4 - 3
-5 - 4
-6 - 5
-7 - 6
-8 - 7
-9 - 8
-10 - 9
-11 - 10
-12 - 11
-13 - 12
-14 - 13

Not to be used for navigational purposes

Aerial Photography from 2007
Survey Completed 21st July 2007

0 125 250 m
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D3-12 - Beach Change

Annual Report 2009

CISCAG - Cornwall

Aerial Photography from 2007

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²
- **Erosion**
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

Annual Change in Cross-sectional Area (%)

MU boundary

7d01323 (3 %)

6d01831 (5 %)

6d01834 (-4 %)
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D3-12 - MHW and MLW Contours

CISCAG - Cornwall

Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

m
Management Unit 6d6D3-12 - Sediment Distribution

Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 15th July 2007

Mixture - CISCAG - Cornwall
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D3-12 - Bathymetric Survey

Annual Report 2009

CISCAG - Cornwall

Aerial Photography from 2007
Survey Completed 11th July 2007

Elevation Metres OD

-1 - 0
-2 -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-8 - -6
-10 - -8
-12 - -10
-20 - -12
-40 - -20

Not to be used for navigational purposes
Management Unit 6d6D5-2 (1 of 2) - Beach Change

Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
- **Erosion**
  - Less than 5 m²
  - 15 - 30 m²
  - > 30 m²

**No Change**

- 5 - 15 m²

**Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)**

- 7d01323 (3%)

**MU boundary**
### Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

<table>
<thead>
<tr>
<th>Change Type</th>
<th>Change in Cross-sectional Area (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accretion</td>
<td>&gt; 30 m²</td>
</tr>
<tr>
<td></td>
<td>15 - 30 m²</td>
</tr>
<tr>
<td></td>
<td>5 - 15 m²</td>
</tr>
<tr>
<td>No Change</td>
<td>Less than 5 m²</td>
</tr>
<tr>
<td>Erosion</td>
<td>5 - 15 m²</td>
</tr>
<tr>
<td></td>
<td>15 - 30 m²</td>
</tr>
<tr>
<td></td>
<td>&gt; 30 m²</td>
</tr>
<tr>
<td></td>
<td>Less than 5 m²</td>
</tr>
</tbody>
</table>

**MU boundary**

**Annual Change in Cross-sectional Area (%)**

**7d01323 (3%)**
**Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Change Range</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accretion</td>
<td>&gt; 30 m²</td>
<td>Blue</td>
</tr>
<tr>
<td></td>
<td>15 - 30 m²</td>
<td>Blue</td>
</tr>
<tr>
<td></td>
<td>5 - 15 m²</td>
<td>Blue</td>
</tr>
<tr>
<td></td>
<td>Less than 5 m²</td>
<td>Gray</td>
</tr>
<tr>
<td>No Change</td>
<td>5 - 15 m²</td>
<td>Yellow</td>
</tr>
<tr>
<td></td>
<td>15 - 30 m²</td>
<td>Yellow</td>
</tr>
<tr>
<td></td>
<td>&gt; 30 m²</td>
<td>Yellow</td>
</tr>
<tr>
<td>Erosion</td>
<td>Less than 5 m²</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>5 - 15 m²</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>15 - 30 m²</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>&gt; 30 m²</td>
<td>Red</td>
</tr>
</tbody>
</table>

MU boundary

Annual Change in Cross-sectional Area (%)

Aerial Photography from 2007

7d01323 (3 %)
Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007

Annual Report 2009
CISCAG - Cornwall

MHW 1998
MHW 2007
MLW 2007

Historic Contours Derived from LiDAR
Aerial Photography from 2007

Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007

Annual Report 2009
CISCAG - Cornwall

MHW 1998
MHW 2007
MLW 2007

Historic Contours Derived from LiDAR
Aerial Photography from 2007

Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007

Annual Report 2009
CISCAG - Cornwall

MHW 1998
MHW 2007
MLW 2007

Historic Contours Derived from LiDAR
Aerial Photography from 2007

Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007

Annual Report 2009
CISCAG - Cornwall

MHW 1998
MHW 2007
MLW 2007

Historic Contours Derived from LiDAR
Aerial Photography from 2007
Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 21st March 2007
Aerial Photography from 2007
Survey Completed 16th May 2007

Elevation
Metres OD
-1 - 0
-2 - 1
-3 - 2
-4 - 3
-5 - 4
-6 - 5
-8 - 6
-10 - 8
-12 - 10
-20 - 12
-40 - 20

Not to be used for navigational purposes.
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D5-4 - Beach Change

CISCAG - Cornwall

Annual Report 2009

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- Accretion:
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²

- No Change:
  - Less than 5 m²
  - 5 - 15 m²
  - 15 - 30 m²

- Erosion:
  - > 30 m²

Annual Change in Cross-sectional Area (%)

 MU boundary

Aerial Photography from 2007

Accretion
No Change
Erosion

7d01323 (3%)
6d02148 (-6%)

CISCAG - Cornwall
### Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**:
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²
- **Erosion**:
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²
- **No Change**:
  - Less than 5 m²

**MU boundary**

**Annual Change in Cross-sectional Area (%)**

- 7d01323 (3%)
- 6d02148 (0%)
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D5-4 - MHW and MLW Contours

Contours

MHW Elevation: 1.94 OD
MLW Elevation: -1.46 OD

- MHW 2000
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR
Sediment Type

- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 23rd March 2007

Management Unit 6d6D5-4 - Sediment Distribution

CISCAG - Cornwall
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D5-4 - Bathymetric Survey

Annual Report 2009

CISCAG - Cornwall

Elevation
Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-8 - -6
-10 - -8
-12 - -10
-20 - -12
-40 - -20

Aerial Photography from 2007
Survey Completed 15th April 2007

Not to be used for navigational purposes
Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

<table>
<thead>
<tr>
<th>Change Type</th>
<th>&gt; 30 m²</th>
<th>15 - 30 m²</th>
<th>5 - 15 m²</th>
<th>Less than 5 m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accretion</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Change</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Erosion</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 7d01323 (3 %)
- 6d02481 (-1 %)
- 6d02485 (-8 %)

Aerial Photography from 2007

Annual Change in Cross-sectional Area (%)
Contours

MHW Elevation: 1.85 OD
MLW Elevation: -1.65 OD

- MHW 2007
- MLW 2007

Historic LiDAR contours are unavailable for this management unit

Aerial Photography from 2007
Historic Contours Derived from LiDAR
Sediment Type
- Gravel
- Gravel & Sand
- Sand
- Boulder
- Dune
- Dune Vegetated
- Grass
- Gravel & Mud
- Mud
- Mud & Sand
- Rock
- Saltmarsh
- Sea Defence
- Shell
- Water Body
- Mixture
- Obstruction

Aerial Photography from 2007
Survey Completed 20th March 2007
Annual Report 2009

Elevation
Metres OD

-1 - 0
-2 - -1
-3 - -2
-4 - -3
-5 - -4
-6 - -5
-8 - -6
-10 - -8
-12 - -10
-20 - -12
-40 - -20

Not to be used for navigational purposes

Aerial Photography from 2007
Survey Completed 19th May 2007
Southwest Strategic Regional Coastal Monitoring Programme

Annual Report 2009

CISCAG - Cornwall

Management Unit 6d6D5-14 - Beach Change

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)

- Accretion:
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
- No Change:
  - Less than 5 m²
  - 5 - 15 m²
  - 15 - 30 m²
- Erosion:
  - > 30 m²

MU boundary

Annual Change in Cross-sectional Area (%)

7d01323 (3 %)

Actual Change in Cross-sectional Area (Spring 2008 to Spring 2009)
Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- **Accretion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²
  - No Change

- **Erosion**
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

MU boundary

7d01323 (3 %)

Annual Change in Cross-sectional Area (%)

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D5-14 - MHW and MLW Contours

Annual Report 2009

CISCAG - Cornwall

Contours

MHW Elevation: 1.85 OD
MLW Elevation: -1.65 OD

- MHW 1998
- MHW 2007
- MLW 2007

Aerial Photography from 2007
Historic Contours Derived from LiDAR

MHW 1998
MHW 2007
MLW 2007

± 5 5 0 m
Not to be used for navigational purposes.
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D5-15 - Beach Change

Actual Change in Cross-sectional Area (Baseline 2007 to Spring 2009)

- Accretion:
  - > 30 m²
  - 15 - 30 m²
  - 5 - 15 m²
  - Less than 5 m²

- Erosion:
  - 5 - 15 m²
  - 15 - 30 m²
  - > 30 m²

No Change:
  - Less than 5 m²

Annual Change in Cross-sectional Area (%)

- 7d01323 (3 %)

Aerial Photography from 2007

MU boundary

CISCAG - Cornwall
Southwest Strategic Regional Coastal Monitoring Programme

Management Unit 6d6D5-15 - MHW and MLW Contours

CISCAG - Cornwall

Annual Report 2009

Contours

MHW Elevation: 1.85 OD
MLW Elevation: -1.65 OD

MHW 2007
MLW 2007

Historic LiDAR contours are unavailable for this management unit.
Cross Sectional Area above MF Trend for Location: 6c000256 and Reference Profile Set

Area Above MP Trend: Accreting at 8.783 m²/Year
Cross Sectional Area above MF Trend for Location: 6c00264 and Reference Profile Set

Area Above MP Trend: Accreting at 7.953 m²/Year

Survey Date:

- 07/06/2007
- 06/06/2007
- 05/10/2007
- 04/12/2007
- 02/02/2008
- 02/04/2008
- 01/06/2008
- 31/07/2008
- 29/09/2008
- 26/11/2008
- 27/01/2009

Beach Area (m²):

- 415
- 410
- 405
- 400
- 395
- 390
- 385
- 380
- 375
- 370
- 365
- 360
- 355
- 350
- 345
- 340
- 335
- 330
- 325
- 320
- 315
- 310
- 305
- 300
- 295
- 290
- 285
- 280
- 275
- 270
- 265
- 260
- 255
- 250
- 245
- 240
Cross Sectional Area above MF Trend for Location: 6c00472 and Reference Profile Set

Area Above MP Trend: Accreting at 5.441 m$^2$/Year
Cross Sectional Area above MF Trend for Location: 6C00513 and Reference Profile Set

Area Above MP Trend: Eroding at -9.414 m²/Year

Survey Date

- 06/03/2007
- 05/03/2007
- 04/12/2007
- 02/02/2008
- 02/04/2008
- 01/06/2008
- 31/07/2008
- 29/09/2008
- 28/11/2008
- 27/01/2009

Legend:
- Yellow: Recycling Event
- Green: Area Above MP
- Green: Area Trend
- Blue: Area Between MP & DP
Cross Sectional Area above MF Trend for Location: 6cD0517 and Reference Profile Set

Area Above MP Trend: Eroding at -13.318 m²/Year
Cross-Sectional Area above MF Trend for Location: 6C00524 and Reference Profile Set

Area Above MP Trend: Eroding at -3.231 m²/Year

Survey Date:
- 06/03/2007
- 05/10/2007
- 04/12/2007
- 02/02/2008
- 02/04/2008
- 01/06/2008
- 31/07/2008
- 29/09/2008
- 28/11/2008
- 27/12/2008

Beach Area (m²):
- 320
- 340
- 360
- 380
- 400
- 420
- 440
- 460
- 480
- 500
- 520
- 540
- 560
- 580

Legend:
- Yellow: Recycling Event
- Green: Area Above MP
- Green: Area Trend
- Blue: Area Between MP & DP
Cross Sectional Area above MF Trend for Location: 6c00574 and Reference Profile Set

Area Above MP Trend: Accreting at 54.178 m²/Year
Cross Sectional Area above MF Trend for Location: 6c00577 and Reference Profile Set

Area Above MP Trend: Accreting at 101 929 m²/Year
Cross Sectional Area above MF Trend for Location: 6c00596 and Reference Profile Set

Area Above MP Trend: Accreting at 13.274 m²/Year
Cross Sectional Area above MF Trend for Location: 6c00604 and Reference Profile Set

Area Above MP Trend: Accreting at 26.680 m²/Year
Cross Sectional Area above MF Trend for Location: 6c00619 and Reference Profile Set

Area Above MP Trend: Accreting at 8.209 m²/Year

Survey Date:
- 05/10/2007
- 04/12/2007
- 02/02/2008
- 02/04/2008
- 01/06/2008
- 31/07/2008
- 29/09/2008
- 28/11/2008
- 27/01/2009

Legend:
- Yellow: Recycling Event
- Green: Area Above MP
- Green: Area Trend
- Blue: Area Between MP & DP

SAIDS
Cross Sectional Area above MF Trend for Location: 6C01297 and Reference Profile Set

Area Above MP Trend: Eroding at -1.260 m²/Year
Cross Sectional Area above MF Trend for Location: 6c01304 and Reference Profile Set

Area Above MP Trend: Accreting at 1.574 m²/Year
Cross Sectional Area above MF Trend for Location: 6d00294 and Reference Profile Set

Area Above MP Trend: Eroding at -1.251 m²/Year
Cross Sectional Area above MF Trend for Location: 6d00296 and Reference Profile Set

Area Above MP Trend: Eroding at -12.221 m²/Year
Cross Sectional Area above MF Trend for Location: 6d0302 and Reference Profile Set

Area Above MP Trend: Eroding at -2.369 m²/Year
Cross Sectional Area above MF Trend for Location: 6d00306 and Reference Profile Set

Area Above MP Trend: Eroding at -2.287 m²/Year
Cross Sectional Area above MF Trend for Location: 6d00310 and Reference Profile Set

Area Above MP Trend: Accreting at 4.144 m²/Year
Cross Sectional Area above MF Trend for Location: 6d00323 and Reference Profile Set

Area Above MP Trend: Eroding at -13.284 m²/Year
Cross Sectional Area above MF Trend for Location: 6d00410 and Reference Profile Set

Area Above MP Trend: Eroding at -3.027 m²/Year

Survey Date


Beach Area (m²)

100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430

Legend:
- Yellow: Recycling Event
- Green: Area Above MP
- Green: Area Trend
- Blue: Area Between MP & DP

SAIDS
Cross Sectional Area above MF Trend for Location: 6d00425 and Reference Profile Set

Area Above MP Trend: Accreting at 1.255 m²/Year

Survey Date

- 08/04/2007
- 07/05/2007
- 06/06/2007
- 05/10/2007
- 04/12/2007
- 02/02/2006
- 02/04/2006
- 01/06/2006
- 31/07/2006
- 29/09/2008
- 28/11/2008
- 27/01/2009

Beach Area (m²)

- 430
- 420
- 410
- 400
- 390
- 380
- 370
- 360
- 350
- 340
- 330
- 320
- 310
- 300
- 290
- 280
- 270
- 260
- 250
- 240
- 230
- 220
- 210
- 200
- 190
- 180
- 170
- 160
- 150
- 140
- 130
- 120

Management Unit 6d00425-6
Cross-Sectional Area Charts

- Yellow: Recycling Event
- Green: Area Above MP
- Green: Area Trend
- Blue: Area Between MP & DP
Cross Sectional Area above MF Trend for Location: 6d0429 and Reference Profile Set

Area Above MP Trend: Eroding at -4.863 m²/Year
Cross Sectional Area above MF Trend for Location: 6d00956 and Reference Profile Set

Area Above MP Trend: Accreting at 8.196 m²/Year

Survey Date Range: 08/04/2007 to 27/01/2009
Cross Sectional Area above MF Trend for Location: 6d00960 and Reference Profile Set

Area Above MP Trend: Accreting at 1.322 m²/Year
Cross Sectional Area above MF Trend for Location: 6d00965 and Reference Profile Set

Area Above MP Trend: Eroding at -12.835 m²/Year
Cross Sectional Area above MF Trend for Location: 6d01010 and Reference Profile Set

Area Above MF Trend: Eroding at -1.716 m²/Year
Area Above MP Trend: Accreting at 8.957 m²/Year
Cross Sectional Area above MF Trend for Location: 6d01221 and Reference Profile Set

Area Above MP Trend: Eroding at -0.558 m²/Year

Survey Date: 05/04/2007 to 28/03/2009

Beach Area (m²):
- 220 to 860
Cross Sectional Area above MF Trend for Location: 6d0129l and Reference Profile Set

Area Above MP Trend: Eroding at -7.275 m²/Year

Survey Date:
- 06/04/2007
- 07/06/2007
- 08/06/2007
- 05/10/2007
- 04/12/2007
- 02/02/2006
- 02/04/2006
- 01/06/2008
- 31/07/2008
- 29/09/2008
- 29/11/2008
- 27/01/2009

Legend:
- Yellow: Recycling Event
- Green: Area Above MP
- Green: Area Trend
- Blue: Area Between MP & DP

SAIDS
Cross-sectional Area above MF Trend for Location: 6d01377 and Reference Profile Set

Area Above MP Trend: Eroding at -2.301 m²/Year
Cross Sectional Area above MF Trend for Location: 6d01477 and Reference Profile Set

Area Above MP Trend: Accreting at 19.297 m²/Year
Cross Sectional Area above MF Trend for Location: 6d01526 and Reference Profile Set

Area Above MP Trend: Accreting at 10.692 m²/year
Cross Sectional Area above MF Trend for Location: 6d01556 and Reference Profile Set

Area Above MP Trend: Eroding at -0.131 m²/Year
Cross Sectional Area above MF Trend for Location: 6d01561 and Reference Profile Set

Area Above MP Trend: Eroding at -6.729 m²/Year
Cross Sectional Area above MF Trend for Location: 6d01734 and Reference Profile Set

Area Above MP Trend: Accreting at 9.793 m²/Year
Cross Sectional Area above MF Trend for Location: 6d01742 and Reference Profile Set

Area Above MP Trend: Eroding at -1.930 m²/Year
Cross Sectional Area above MF Trend for Location: 6d01834 and Reference Profile Set

Area Above MP Trend: Accreting at 3.839 m²/Year

Survey Date


Beach Area (m²)

99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129
Cross Sectional Area above MF Trend for Location: 6d02082 and Reference Profile Set

Area Above MP Trend: Eroding at -12.059 m²/Year
Cross sectional area above MF trend for Location: 6d02097 and Reference Profile Set

Area Above MP Trend: Accreting at 1.270 m²/Year

Survey Date


Recycling Event Area Above MP Area Trend Area Between MP & DP
Cross Sectional Area above MF Trend for Location: 6d02148 and Reference Profile Set

Area Above MP Trend: Eroding at -0.039 m²/Year
Cross Sectional Area above MF Trend for Location: 6d02461 and Reference Profile Set

Area Above MP Trend: Eroding at -11.802 m²/Year
Profile Charts for Management Unit 6d6D2-13

Beach Profiles: 6d01225

Chart showing beach profiles with various lines representing different years (2009-04, 2008-10, 2008-08, 2007-10, 2007-03). The chart indicates changes in shorelines over time.