This survey unit includes the sandy pocket beaches in Kingsgate Bay and Joss Bay, both of which have no hard defences and are backed by chalk cliffs. The majority of the cliffs are exposed to wave action on a daily basis and recent cliff falls are apparent. The headland between the two bays, under Kingsgate Castle, and small sections within Kingsgate Bay, are protected by seawalls, some sections of which span the height of the cliffs. The foreshore consists of a chalk platform interspersed with sand areas.

**Survey outcome:**

There are no design levels for North Foreland.

<table>
<thead>
<tr>
<th>Survey type</th>
<th>Survey dates</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring to Spring</td>
<td>08/03/2017 - 27/03/2018</td>
<td>Four of the six profiles show an overall loss of material with 4b00012A losing 33m² (6%). Profile 4b00008A is the only profile to show a significant gain this year of 17m² (7%).</td>
</tr>
<tr>
<td>Baseline to Spring</td>
<td>20/09/2012 - 27/03/2018</td>
<td>Mostly low level changes throughout the survey unit, with all profiles showing an overall gain since monitoring began in 2012. Profile 4b00008A, in Joss Bay, shows the largest gain historically of 15m² (6%). All current profiles have CSA’s near their mid-ranges.</td>
</tr>
<tr>
<td>Summer to Spring</td>
<td>13/06/2017 - 27/03/2018</td>
<td>All profiles, with the exception of one, recorded a loss. Profile 4b00008A gained 19m² (8%).</td>
</tr>
</tbody>
</table>
### 4bSU01 - North Foreland

Current and Historic Beach Cross-Sectional Areas (m²) based on datums of 0 to -1.2 mOD.

**Design Standard = 1:200 years**
South East Regional Coastal Monitoring Programme
Profile Change Summary for
Baseline 2012 to Spring 2018

Annual Change in Cross-Sectional Area (m²)

- >30%
- 15-30%
- 5-15%
- <5% (no change)

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Profile Change Summary for Summer 2017 to Spring 2018

Annual Change in Cross-Sectional Area (m²)

- >30%
- 15-30%
- 5-15%
- >30%
- Less than 5% (no change)
Appendix A: Explanation of the Historic Summary Chart

The historic changes in Cross-Sectional Area (CSA) for each profile are summarised by identifying the historic highest and lowest CSA alongside the current CSA for each profile:

FIGURE A1: PRESENTATION OF STANDARD OF PROTECTION AND TRIGGER LEVELS
(A) HISTORIC VARIATION OF BEACH LEVELS (CSA)
(B) SUMMARY OF DATA, PINK BAR – CURRENT BEACH LEVEL, BLACK BARS – HISTORIC HIGH AND LOW
Appendix B: Profile Change Summary

Changes along individual profiles for a range of timeframes are summarised in a series of thematic maps on the previous pages. The maps show the location of each beach profile, superimposed on aerial photography (note the lines have been extended for clarity). The name of the profile, the percentage change of beach material and the change in m² has been including upon the line, which is illustrated in Figure B1.

**FIGURE B1: PRESENTATION OF THE PROFILE CHANGE SUMMARY**