

6 Action Plan

6.1 Introduction

The draft South Devon and Dorset (SDAD) SMP was issued for consultation in April 2009. The consultation period ended on 24th July 2009. All comments raised during the consultation period were collated, reviewed and a response to each comment was recorded in the Consultation Feedback Report (see **Appendix B**). Where it was possible to respond to the comments immediately, the SMP was amended and the changes can be viewed in the final version of the SMP. In some cases, it was not possible to respond to the comments immediately, for reasons such as further study is required to fully answer the question; or suggestions for further work were made during the consultation period, for example to better understand the implications of an option for the coastline, the social environment, or natural environment. To account for these comments, and to formalise the actions required to complete the necessary studies, the SMP Action Plan was completed.

The Action Plan provides a list of actions that should now be taken by the Environment Agency and local authorities in the period up to the next SMP review, which will ultimately lead to better informed decision making relating to coastal management policy at the coast. This is nominally a 5 to 10 year period, however, the SMP provides for reassessment of this timescale should an earlier review be considered necessary.

The Action Plan has been completed using the latest format guidance provided by the SMP National Quality Review Group. **Appendix M** contains the full Action Plan produced in the national format for ease of future reporting of action plan progress. However, for ease of reading, a summary of the Action Plan is presented here in Section 6. The actions are split into those that are applicable to the whole SMP area (Section 6.2) and those that apply to specific areas or locations (Section 6.3). These specific areas based on the sections of coast for which it has been identified that there is a significant processes interaction for developing SMP policies, also referred to in the Plan as Policy Scenario Areas.

In the preceding sections a summary of the actions to be taken is provided along with a table for each section giving specific detail. In accordance with the guidance provided by the SMP National Quality Review Group, an 'action type' is assigned to each action, as shown in Table 6.1. Other details include a description of the action, potential source for funding, responsibility, when by, and relative importance and links with other actions. Table 6.2 provides a description of what is each column of the summary action tables presented in Sections 6.2 and 6.3.

Table 6.1 Description of Action Types, as defined by the SMP Review Group (2010)

| Heading | Example Activities |
|------------------------------|--|
| Study | Studies and investigations, including site investigations, modelling, coastal stability studies. |
| Strategy | Preparation and review of strategies. |
| Scheme Work | Capital works. |
| Coastal Monitoring (ongoing) | Regional and local. Data collection and analysis. |
| Asset Management | Includes preparation of Asset Management Plans, maintenance. |

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| Heading | Example Activities |
|---|--|
| Communication | Communication activities not covered by other headings e.g. maintaining website, ongoing engagement with stakeholders. |
| Planning | Activities relating to engagement with spatial planning; work to influence planning documents (e.g. Local Development Frameworks (LDFs)) and decisions relating to development control. |
| Contingency Planning & Emergency Response | Contingency and emergency response planning and engagement. |
| Adaptation/Resilience | Studies and engagement with others to consider development and implementation of adaptation activities at the coast. |
| Early Warning | Activities relating to the development and implementation of early warning. |
| Habitat Creation | Studies and works related specifically to the creation and restoration of habitats; work related to Regional Habitat Creation Programmes (RHCP). |
| Funding | Link to Medium Term Plan (MTP) entry. Identification and pursuit of alternative funding sources for any Flood and Coastal Risk Management (FCRM) activities. |
| SMP Management and Monitoring | Procedures for the management of the SMP until its next review such as steering group meetings. Include processes for monitoring progress and expenditure; also for considering impacts upon the plan of changes in policy or new guidance, or the emergence of new data. Links to National Indicator (NI) 189. Identify and publish lessons learnt. |

Table 6.2 Description of table headings in summary Action Plan tables presented in Sections 6.2 and 6.3

| Table Heading | Detail Provided |
|-------------------------|--|
| Action Type | This is the type of action as defined in Table 6.1. |
| Action Reference | <p>This is a unique reference number for each separate action.</p> <p>In Section 6.2 these are prefixed “SDAD.ALL.” – “SDAD” refers to the South Devon and Dorset SMP2; “ALL” refers to being applicable to the whole SMP area.</p> <p>In Section 6.3 these are prefixed “SDAD.PSA” – where “PSA” is followed by a number specific to which Policy Scenario Area the action relates to.</p> <p>In both cases the last part of the reference is two numbers, for example “2.1”. In this example “2” refers to the action type (refer to above) and “1” refers to this being the first action under this header in this section.</p> |
| Policy Unit | This states which policy units the action relates to within the policy area. In Section 6.2 “ALL” is stated here as actions apply to the whole SMP area. |

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| Table Heading | Detail Provided |
|--|---|
| Action Description | This provides details of what action is to be taken. |
| Potential source for funding (subject to approval) | Identifies likely source of funding to implement each action. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. |
| Responsibility (lead partner) | This identifies which organisation(s) should take the lead in taking forward the action. |
| When by (subject to funding) | Gives an indication of when an action should be completed by. This also gives indication of relative urgency but has also been defined in considering all actions. |
| Relative importance and links with other actions | This describes the relative importance of undertaking an action in relation to other actions. For example, undertaking more intensive monitoring to inform detailed study later on. Links to other actions either in the same area or for the whole SMP area are also indicated. |

6.2 SMP Wide Actions

This section sets out a range of actions that are applicable to the whole of the South Devon and Dorset (SDAD) SMP2 frontage and these should be read in combination with specific actions stated for each smaller section of coast (Policy Scenario Area) discussed in Section 6.3.

These SMP wide actions are aimed at ensuring that the actions required to implement the SMP are taken in the period before the next SMP review. This is to be achieved through (i) the establishment of procedures to monitor progress by the coastal group and (ii) engagement with relevant organisations and planners to ensure that any decisions made relating to the future development/management of the coastline are fully informed by the implications of the policies in this SMP. This engagement and communication also needs to extend to all stakeholders and the general public, especially in areas where there is likely to be a need for adaptation in the medium to long term as defence provision is withdrawn. In such areas adaptation plans to guide what changes in an area are required and how they are to be delivered are likely to be required.

Continuation of the Strategic Regional Coastal Monitoring Programmes run by Plymouth Coastal Observatory and Channel Coastal Observatory is vital to ensure that the next SMP review and all coastal risk management decisions taken in the interim are informed by site specific, evidence based data. Actions to undertake additional, or increase the frequency of, monitoring to obtain additional data is also included for in some areas.

Additional recommendations include a study to investigate and quantify the amenity value of the beaches in the SMP area (and possibly the wider South-West) and how this may change in the future as a result of sea level rise. A number of policies in the Plan recognise that if the policy can be achieved using beach recharge then this is likely to have a much greater amenity value in the future as other beaches where recharge is not possible will be reduced (or even lost). The findings of these studies will be used to help to determine the feasibility of beach recharge

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ensuring that robust consideration of amenity value of beaches is taken into account. At present there is no evidence against which this assumption can be validated in terms of quantifying the additional amenity benefit.

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Table 6.3 Actions for the whole South Devon & Dorset SMP2 area

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|-------------|---|--|---|------------------------------|--|
| 1. Studies for Policy Scenario Area | SDAD.ALL.1.1 | All | In a number of locations, it is recognised that beaches are reducing in size as sea levels rise, and as noted in the relevant policy statements, an effective way to overcome this is with the beach recharge and beach management practices. The added benefit to this approach is also the potential to increase the amenity value of the beach. A study should be considered to appraise the types of beaches and amenity resource provided, the amounts of each type of beach and amenity resource currently available, extents and values of beaches in the SDAD area (and possibly wider South-West) and evaluate the risks to each beach from climate change, such that there is a consistent and robust evidence base against which such statements can be made in future SMP revisions or as a common reference in developing strategies/Beach Management Plans. | Defra/ Environment Agency | Environment Agency / Local Authorities / Climate South West | 2012 | This study would be very useful not only for informing flood and coastal risk management studies but also other organisations and businesses that are located along the coastline and would be likely to find this information of value in their future planning activities. One such area where this would be of benefit is informing the Weymouth Bay Strategy (refer to Action Plan item SDAD.PSA3.3.1) and, it is therefore recommended that this study is completed in advance of that strategy. |
| | SDAD.ALL.1.2 | All | In areas where the policy is for No Active Intervention to occur, the lack of maintenance of defences in the future may pose a health and safety risk as structures become unsafe for public use. Deteriorating defences may also detract from the visual amenity of an area. An investigation into the implications for health and safety and/or visual amenity of No Active Intervention policy along parts of the SMP frontage should be carried out to inform future management decisions about areas where removal of defences may be necessary. | Defra/ Environment Agency | Environment Agency / Local Authorities | 2020 | There are a number of areas where a policy of No Active Intervention may cause a health and safety issue, although it is not likely that this will occur until at least the end of the first epoch in some areas, and during the medium term in most areas. Therefore this study should be completed before the next SMP review. |
| | SDAD.ALL.1.3 | All | Ensure that all studies, strategies and schemes work with the requirements of the Water Framework Directive (WFD), referring in each case to the River Basin Management Plan and associated action plan for the region. | n/a | Environment Agency / Local Authorities | ongoing | Compliance with the WFD is a statutory requirement and therefore this action needs to be undertaken as part of all future coastal projects. |
| | SDAD.ALL.1.4 | All | Ensure that all studies, strategies and schemes integrate with the requirements of the Catchment Flood Management Plans (CFMPs) and associated action plans in each location. | n/a | Environment Agency / Local Authorities | ongoing | The CFMPs provide policy for flood risk management in similar way to the SMP. Therefore this action needs to be undertaken as part of all future coastal projects to ensure that implementation of SMP policy does not contrary to the CFMP policy. |
| | SDAD.ALL.1.5 | All | Ensure that all studies, strategies and schemes work give adequate consideration to nature conservation and historic environment assets (including historic landscapes) to both fully understand and manage implications of future management decisions as well as to seek, where practical, opportunities to improve the condition of the natural and historic environment. Where avoidance of damage/loss of such assets from flooding/erosion is not possible and where assets can not be preserved in situ, mitigation should take the form of excavation and recording. | n/a | Environment Agency / Local Authorities | ongoing | Assessment of the natural and historic environment should be done at an appropriate level of detail depending on the project, and should engage with relevant bodies such as Natural England and English Heritage. |
| | SDAD.ALL.1.6 | All | Investigate and identify contaminated land areas as a useful dataset to inform future FCERM decisions | Defra/ Environment Agency | Environment Agency / Local Authorities | ongoing | The SMP identified a lack of available data on contaminated land. This should be rectified as soon as possible such that it can be used to inform future management decisions as part of other recommended studies. |
| 2. Studies for Policy Units | - | - | - | - | - | - | - |
| 3. Strategy | - | - | - | - | - | - | - |
| 4. Scheme Work | - | - | - | - | - | - | - |
| 5. Coastal Monitoring (ongoing) | SDAD.ALL.5.1 | All | Continue the Strategic Regional Coastal Monitoring Programmes to improve the amount and quality of information on which to base future management decisions. | Defra/ Environment | Environment Agency / Local | ongoing | This is vital to improve understanding of coastal processes and assess the risk to the integrity of existing coastal defences. |

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| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|----------------------------|------------------|-------------|--|--|---|------------------------------|---|
| | | | | Agency | Authorities | | |
| | SDAD.ALL.5.2 | All | Ensure that periodic defence inspection, including assessment of condition and photographic recording, is undertaken and that defence crest levels are confirmed. | Defra/ Environment Agency | Environment Agency | ongoing | Continued monitoring of the condition of defences is important to inform future management decisions. This could be carried out as part of studies/strategies where they are to occur along parts of this frontage. Refer also to Action Plan item SDAD.ALL.6.1. |
| | SDAD.ALL.5.3 | All | Develop and implement routine cliff inspection and monitoring to provide improved information about cliff behaviour and recession. This could be included in the remit of the Strategic Regional Coastal Monitoring Programme or carried out separately and should include, but not necessarily be limited to, Ringstead, Furzy Cliff, the north-west shore of Portland Harbour, Burton Cliff (Freshwater / Burton Bradstock), East Cliff (West Bay), Charmouth, Lyme Regis and Seaton to Seaton Hole. Consideration should also be given to establishing an expert review group to advise on recession risk in areas of complex cliff processes. This information should not only be used in future coastal management by informing future updates of the National Coastal Erosion Risk Mapping, but also to assist in stakeholder liaison by use of data in public education campaigns. | Defra/ Environment Agency | Channel/Plymouth Coastal Observatories / Environment Agency / Local Authorities | ongoing | Cliff recession information needs to be improved to inform future revisions of erosion risk maps. Refer also to Action Plan item SDAD.ALL.8.1. |
| | SDAD.ALL.5.4 | All | Implement a comprehensive programme of coastal landfill site monitoring to allow ongoing assessment of risk posed to these sites from coastal erosion and flooding. This should also include monitoring of contaminants. Sites that should be included in any such monitoring include east of Spittles at Lyme Regis and the former landfill site at Lodmoor. | Defra/ Environment Agency | Environment Agency | ongoing | Monitoring of the risks posed to landfill sites from coastal erosion and flooding is important to ensure compliance with water quality and WFD objectives. |
| 6. Asset Management | SDAD.ALL.6.1 | All | The National Flood and Coastal Defence Database needs to be reviewed and updated to ensure that the information it contains is both accurate and current. This should consider being expanded to cover both public and private defences so that defence information is readily available from a single source for use in future coastal risk management planning. | Defra/ Environment Agency | Environment Agency | ongoing | Whilst the NFCDD has recently been updated with information collected in parallel to this SMP, there are still many gaps in the data it contains for public assets. It lacks basic information on all publically owned assets, and does not include details of private defences. Without this, a source for identifying where private assets are located does not exist. Continual improvements to the defence information are required. This could be carried out as part of studies/strategies where they are to occur along parts of this frontage. Refer also to Action Plan item SDAD.ALL.5.2. |
| 7. Communication | SDAD.ALL.7.1 | All | Undertake consultation with key stakeholders and general public during development of adaptation plans to ensure an acceptable approach is developed. | Defra/ Environment Agency | Environment Agency / Local Authorities | ongoing | This action should be undertaken as adaptation plans are developed for different parts of the coast. Refer also to Action Plan item SDAD.ALL.10.1. |
| | SDAD.ALL.7.2 | All | Maintain and develop the coastal group website as a means for communicating how SMP policies are being taken forward under the Action Plan. | South Devon and Dorset Coastal Advisory Group | Teignbridge District Council | ongoing | The www.sdadcag.org website should be updated on an ongoing basis with details of progress as studies, strategies, schemes and other initiatives are undertaken. |
| | SDAD.ALL.7.3 | All | Engage with other organisations (e.g. Highways, Historic Environment, South West Coast Path and Utilities) and general public to inform them of the potential future risks of flood and coastal erosion as a result of SMP policies and work with these to develop plans for adapting to the changing risk. Development of adaptation plans should utilise outcomes from the Pathfinder projects. | n/a | Environment Agency / Local Authorities | 2010 | This should be carried out as soon as practical following adoption of the SMP to ensure that planners are able to take full account of SMP policies. This will also help fulfil Action Plan items SDAD.ALL.8.2 and SDAD.ALL.10.1. |
| 8. Planning | SDAD.ALL.8.1 | All | Continue with improvements to flood and erosion risk maps to provide improved | Defra/ | Environment | ongoing | Updates of flood and erosion risk maps are to occur and |

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| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|-------------|--|--|--|------------------------------|---|
| | | | information for land use planning and future coastal risk management. | Environment Agency | Agency | | incorporate new information. In the case of erosion risk maps, improvements will be greatly aided by data to be collected under Action Plan item SDAD.ALL.5.3. |
| | SDAD.ALL.8.2 | All | Ensure SMP policies and flood and erosion risks are accounted for in the next revisions of land use plans in order to help manage residual risks from flooding and erosion, and to inform future planning decisions. | n/a | Environment Agency / Local Authorities | ongoing | This action will need to be implemented as each Local Development Framework is developed. It will be greatly aided by Action Plan item SDAD.ALL.7.3. |
| 9. Contingency Planning & Emergency Response | SDAD.ALL.9.1 | All | Review, develop/update and monitor contingency/emergency response plans to prepare for coastal flood or cliff recession events in light of the final SMP policies. | n/a | Environment Agency / Local Authorities | 2011 | Upon adoption of the Plan, emergency/contingency plans should be reviewed and updated as appropriate to take account of SMP policies. This should follow Action Plan item SDAD.ALL.7.3. |
| 10. Adaptation / Resilience | SDAD.ALL.10.1 | All | Engage with other organisations (e.g. Network Rail, Highways, Historic Environment, South West Coast Path and Utilities) and general public to inform them of the potential future risks of flood and coastal erosion as a result of SMP policies and work with these to develop plans for adapting to the changing risk. | n/a | Environment Agency / Local Authorities | ongoing | Development of adaptation plans will be an ongoing process. This will be aided by Action Plan item SDAD.ALL.7.3 and also require ongoing communication in line with Action Plan item SDAD.ALL.7.1. |
| 11. Early Warning | SDAD.ALL.11.1 | All | Continue with improvements to flood risk maps and inundation modelling to provide improved flood warning service. | Defra/ Environment Agency | Environment Agency | ongoing | This is an ongoing item as new information becomes available. Refer also to Action Plan item SDAD.ALL.8.1. |
| 12. Habitat Creation | SDAD.ALL.12.1 | All | Use the Regional Habitat Creation Programme (RHCP) to develop plans for any required mitigation and compensatory habitat. In the first instance this should be taken forward as a study to quantify the amount and types of habitat at risk along the SMP area, to then guide future requirements for compensatory habitat. | Defra/ Environment Agency | Environment Agency | ongoing | The RHCP will provide a regional context to habitat creation needs and secure compensation/mitigation measures required for specific schemes. This will be updated as new information becomes available. |
| 13. Funding | - | - | - | - | - | - | - |
| 14. SMP Management and Monitoring | SDAD.ALL.14.1 | All | Undertake monitoring and management of Action Plans to ensure SMP policies are put into practice. This should include developing procedures for the management of the SMP until its next review such as steering group meetings, processes for monitoring progress and expenditure (with links to NI 189), and recording in a single database a full list of studies and activities undertaken in the period before the next SMP review. It should also allow for considering impacts upon the plan of changes in policy or new guidance, or the emergence of new data. | South Devon and Dorset Coastal Advisory Group | Teignbridge District Council | ongoing | Development of procedures and processes for monitoring progress on the SMP should be developed as soon as possible after final adoption of the Plan. Monitoring of progress will be an ongoing process. Recording of all studies and activities could be carried out in combination with Action Plan item SDAD.ALL.7.2. |
| | SDAD.ALL.14.2 | All | Identify and publish lessons learnt from development of SMP. | South Devon and Dorset Coastal Advisory Group | Teignbridge District Council | 2010 | The lessons learnt from development of this SMP should be published in the period immediately after final adoption and publication of the Plan. This should be provided to the National Quality Review Group to allow lessons learnt on this SMP to be collated and reviewed alongside lessons learnt from SMP2s undertaken around the rest of England and Wales. |
| | SDAD.ALL.14.3 | All | Provide link to estimates of preferred policy losses upon publication of National Coastal Erosion Risk Mapping outputs. | South Devon and Dorset Coastal Advisory Group | Teignbridge District Council | 2011 | - |

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

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6.3 Policy Scenario Area Actions

6.3.1 Policy Scenario Area I (PSA1) – Durlston Head to White Nothe

This scenario area encompasses the predominantly undefended, naturally functioning cliffed coastline between Durlston Head and White Nothe (policy units 5g01 to 5g08).

The main issue along this frontage is the continued provision of defence at Kimmeridge (5g03) and Lulworth Cove (5g07). These defences are privately owned and unlikely to attract public funding (from the flood and coastal defence budget). The main actions for this area are therefore to engage and work with the relevant land owners to identify how future defence provision may be most sustainably achieved in these areas and, if it is not possible, then assist in developing adaptation measures in line with the SMP wide Action Plan items set out in Section 6.2.

Future decisions here will also be need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.4 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

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Table 6.4 Actions for the policy scenario area between Durlston Head and White Nothe (Policy Units 5g01 to 5g08)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|-------------|--|--|---|------------------------------|--|
| 1. Studies for Policy Scenario Area | - | - | - | - | - | - | - |
| 2. Studies for Policy Units | SDAD.PSA1.2.1 | 5g02, 5g05 | Carry out a study to investigate the effects of the SMP on Encombe and Lulworth Castle Registered Park and Garden | To be determined | English Heritage | To be determined- | Undertake in combination with Action Plan item SDAD.ALL.10.1. |
| 3. Strategy | - | - | - | - | - | - | - |
| 4. Scheme Work | SDAD.PSA1.4.1 | 5g03, 5g07 | The need for any schemes is to be advised by outcomes of Action Plan item SDAD.PSA1.6.1. | Private | Environment Agency / Purbeck District Council | To be determined | Any decisions on the requirement for a scheme(s) is to be based on the outcomes of Action Plan item SDAD.PSA1.6.1. |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA1.6.1 | 5g03, 5g07 | Engage and work with private defence owners to appraise the condition of their defences and ensure that there is an adequate Asset Management Plan in place for ongoing maintenance in the immediate term. This should include investigation of sustainable options for long term defence provision in these areas if funding from non-public funds (not flood and coastal defence budget) are available to achieve this. | Private | Environment Agency / Purbeck District Council | 2013 | Ensure information on private defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. Issues of funding are to be addressed as part of this action in combination with Action Plan item SDAD.PSA1.13.1. |
| 7. Communication | SDAD.PSA1.7.1 | 5g03, 5g07 | Undertake consultation with key stakeholders alongside private defence owners in developing either future defence scheme or adaptation measures to ensure an acceptable approach is developed. | n/a | Environment Agency / Purbeck District Council | ongoing | This is to be undertaken in combination with Action Plan item SDAD.PSA1.6.1 initially, and progressed further with items SDAD.PSA1.4.1 and/or SDAD.PSA1.10.1 as appropriate. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA1.10.1 | 5g03, 5g07 | Should private defences not be maintained in the future, then an adaptation plan is likely to be required. | n/a | Environment Agency / Purbeck District Council | 2014 | A decision on whether an adaptation plan is required will be based on outcomes of Action Plan item SDAD.PSA1.6.1. If an adaptation plan is required, then refer also to SMP wide Action Plan item SDAD.ALL.7.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | - | - | - | - | - | - | - |
| 13. Funding | SDAD.PSA1.13.1 | 5g03, 5g07 | As part of investigating options for long term management of assets, investigate options for different funding sources in addition to private funds. | Private | Environment Agency / Purbeck District Council | 2013 | This is to be undertaken in combination with Action Plan item SDAD.PSA1.6.1 |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |

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6.3.2 Policy Scenario Area 2 (PSA2) – White Nothe to Redcliff Point

This scenario area encompasses the predominantly undefended, naturally functioning cliffed coastline between White Nothe and Redcliff Point (policy units 5g09 to 5g11).

The main issue along this frontage is the continued provision of defence at Ringstead (5g10). These defences were constructed in the mid 1990's with a 50 year scheme life and the Plan (existing or plan in this SMP?) is to maintain these in the short to medium term for as long as is technically, economically and environmentally sustainable to do so. The long term plan here is to withdraw defences and move to a policy of No Active Intervention. There is a need to engage with the local community at Osmington (within 5g11) where the policy of No Active Intervention is likely to lead to erosion of assets in the future. An adaptation plan in this area is required for reasons of NAI.

Therefore the actions to be taken in the immediate term focus is to ensure that a robust plan is in place for managing the current defences and to prolong the effective defence life for as long as possible, whilst community engagement and planning of adaptation measures should be started for the longer term change in policy in line with the relevant SMP wide actions in Section 6.2.

Future decisions here will also be need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.5 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

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Table 6.5 Actions for the policy scenario area between White Nothe and Redcliff Point (Policy Units 5g09 to 5g11)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|--------------|---|--|--|------------------------------|--|
| 1. Studies for Policy Scenario Area | - | - | - | - | - | - | - |
| 2. Studies for Policy Units | SDAD.PSA2.2.1 | 5g10, 5g11 | Carry out a study to assess the risk of flooding and erosion to Fishpond Scheduled Monument and Medieval Settlement Scheduled Monument at West Ringstead Where avoidance of the features from flooding/erosion is not possible and where they cannot be preserved in situ, agree possible mitigation, excavation and recording measures with Natural England. | To be determined | English Heritage- | To be determined- | Possibly undertake in combination with Action Plan item SDAD.PSA2.6.1. Refer also to Action Plan item SDAD.ALL.10.1. |
| | - | - | - | - | - | - | - |
| 3. Strategy | - | - | - | - | - | - | - |
| 4. Scheme Work | SDAD.PSA2.4.1 | 5g10 | The need for any works to extend by a sort way the defences in order to prolong their effective life is to be advised by outcomes of Action Plan item SDAD.PSA2.6.1. | Defra/Environment Agency | West Dorset District Council | To be determined | A decision on the requirements for any future works is to be based on the outcomes of Action Plan item SDAD.PSA1.6.1. |
| 5. Coastal Monitoring (ongoing) | SDAD.PSA2.5.1 | 5g10 | Depending upon the outcomes of Action Plan item SDAD.PSA2.6.1, possibly undertake additional monitoring to provide further information to inform future management decisions. | Defra/Environment Agency | Channel Coastal Observatory / West Dorset District Council | To be determined | Decision on whether to undertake any additional monitoring beyond that currently undertaken by CCO to be based on the outcomes of Action Plan item SDAD.PSA2.6.1. Refer also to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA2.6.1 | 5g10 | A Beach Management Plan should be developed to establish monitoring and maintenance requirements of the defences, both the beach and hard defence elements. | Defra/Environment Agency | West Dorset District Council | 2012 | The Beach Management Plan should be developed in the immediate future to ensure that there is a robust plan in place to prolong the effective life of the defences for as long as possible. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| 7. Communication | SDAD.PSA2.7.1 | 5g10 | Undertake consultation with key stakeholders and residents in developing Beach Management Plan to ensure it takes full account of amenity aspects of the beach as well as the defence aspects. | Defra/Environment Agency | West Dorset District Council | ongoing | This is to be undertaken in combination with Action Plan item SDAD.PSA2.6.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA2.10.1 | 5g10 | Engage with key stakeholders and the local community to begin to develop an adaptation plan for the medium to long term change in policy at Ringstead, and plan for coastal change at Osmington. | Defra/Environment Agency | West Dorset District Council | ongoing | Development of an adaptation plan is required. Refer also to SMP wide Action Plan item SDAD.ALL.7.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA2.12.1 | 5g09 to 5g11 | Identify replacement grassland habitat through the RHCP. | Defra/Environment Agency | Environment Agency | ongoing | This task should be undertaken in combination with Action Plan item SDAD.ALL.12.1. |
| | SDAD.PSA2.12.2 | 5g10 | Seek opportunities at scheme level to improve the favourable condition of the designated terrestrial habitats through scrub control e.g. at Ringstead Bay (defended length) in the short-term. | To be determined | Natural England | To be determined | Possibly undertake in combination with Action Plan item SDAD.PSA2.6.1. Refer also to Action Plan item SDAD.ALL.12.1. |
| 13. Funding | - | - | - | - | - | - | - |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|-------------|--------------------|--|-------------------------------|------------------------------|--|
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.3 Policy Scenario Area 3 (PSA3) – Redcliff Point to Portland Bill

This scenario area extends from Redcliff Point to Portland Bill and encompasses the extensively developed areas of Weymouth Bay and Portland Harbour (policy units 5g12 to 5g23).

There are many flood and coastal erosion risk management issues to be addressed within Weymouth Bay and the Portland Harbour area in the immediate term, not least:

- Sustainability of ongoing management of Preston Beach (5g15) including the need to investigate Managed Realignment opportunities both at along this frontage and at Bowleaze Cove (5g13) to the north.
- Future defence provision for Weymouth, both along the open coast and within Weymouth Harbour (5g16), particularly as many defences in this area are already in a poor and deteriorating state.
- Investigation and management of erosion risk along Portland Harbour north-west shore (5g18 – 5g20) and Furzy Cliff (5g14) including development of adaptation plans where intervention will not occur.
- Investigation of future risks and management options for the Nothe (5g17) and along the western shore of Portland Harbour (5g21 and 5g22).
- Consideration of how best to address risk to transport provision in this area both along Preston Beach where realignment is proposed in the long term (5g15) and along Portland Beach Road (particularly 5g21) where despite a policy along the frontage to Hold the Line, there will remain a risk to this road from potential overwashing/overtopping and even breaching of Chesil Beach to the west of the road, for which the policy is one of limited intervention to repair the defence function of the beach as and when required (6a03).

A key uncertainty underpinning decisions about the future management to address the issues in this area is an insufficient understanding of the existing coastal processes and how they may be affected by climate change and sea level rise. Action to improve coastal processes understanding needs to be taken in the immediate term to provide much better information on which to base future management decisions.

A further key uncertainty here is the future management of the Portland Harbour breakwaters. These are assumed to remain in the development of policy options for the SMP. However, it is known that the management and maintenance of these structures is inadequate and that Portland Port does not accept sole responsibility for the upkeep of the two northern breakwaters. These structures have a major impact on the coastal processes of the area, including a defence function for the inner shoreline of Portland Harbour by reducing wave action at the coast. Action to address this uncertainty is required in the immediate term.

These issues and uncertainties are to be addressed in a series of focussed studies underpinned by a coastal processes study for the whole area to ensure that the linkages between different areas is adequately accounted for in those more focussed studies.

Please note, that whilst the following Table 6.6 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.6 Actions for the policy scenario area between Redcliff Point and Portland Bill (Policy Units 5g12 to 5g23)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|-------------------------------------|------------------|------------------|--|--|-------------------------------------|------------------------------|--|
| 1. Studies for Policy Scenario Area | SDAD.PSA3.1.1 | 5g12 to 5g23 | Undertake a thorough review and update of coastal processes understanding of the entire area, including the influence of the Portland Harbour Breakwaters. | Defra/ Environment Agency | Environment Agency | 2013 | This coastal process study should occur as soon as possible to underpin the other studies identified in this action plan for the Weymouth Bay and Portland Harbour area, such that these studies all have a common baseline of processes understanding. This action would also be informed by information from Action Plan item SDAD.PSA3.5.1. |
| | SDAD.PSA3.1.2 | 5g13 to 5g16 | Undertake a thorough assessment of the amenity value of the Weymouth Bay frontage from Bowleaze Cove to the harbour to inform the economic case for future management decisions. | Defra/ Environment Agency | Weymouth & Portland Borough Council | 2020 | This information will likely be required to allow a robust economic case to be made for continuing to provide long term defence utilising beach recharge, and should be considered alongside outputs from Action Plan item SDAD.ALL.1.1. |
| 2. Studies for Policy Units | SDAD.PSA3.2.1 | 5g15 | Review and update the Preston Beach Management Plan to manage flood and coastal erosion risk following completion of study in Action Plan item SDAD.PSA3.1.1. Update of this plan should include assessment of the need for a permanent control structure at the Overcombe end of the beach. To inform this understanding, an assessment of breach risk through Preston Beach into Lodmoor should be undertaken alongside assessment of options for realignment in response to retreat of Furzy Cliff. | Defra/ Environment Agency | Environment Agency | 2015j | This should be informed by Action Plan item SDAD.PSA3.1.1. This work will inform future management decisions, including the Strategy Study in Action Plan item SDAD.PSA3.3.1. |
| | SDAD.PSA3.2.2 | 5g18, 5g19, 5g20 | Investigate geotechnical situation along the north west shore of Portland Harbour and identify future management needs, including type of intervention measures required and likely programme of when intervention will be required. | Defra/ Environment Agency | Weymouth & Portland Borough Council | 2012 | This work has recently begun and will inform future management decisions, including the Strategy Study in Action Plan item SDAD.PSA3.3.1. Refer also to SMP wide Action Plan item SDAD.ALL.5.3. |
| | SDAD.PSA3.2.3 | 5g16 | Develop a Beach Management Plan for Weymouth Beach to ensure future beach management is adequate to address flood risk whilst acknowledging the significant amenity use of this beach. This should be developed following completion of the Action Plan item SDAD.PSA3.1.1. | Defra/ Environment Agency | Weymouth & Portland Borough Council | 2014 | This should occur following completion of Action Plan item SDAD.PSA3.1.1 and link with Action Plan item SDAD.PSA3.2.4. This work will inform future management decisions, including the Strategy Study in Action Plan item SDAD.PSA3.3.1. |
| | SDAD.PSA3.2.4 | 5g16, 5g17 | Take forward development of options for implementing the Weymouth Flood Risk Management Strategy. Where holding the line here could lead to potential failure of WFD objectives 2 and 3, consider the provision of fish passes, the control and operation of potential structures and the sensitive design of the scheme. | Defra/ Environment Agency | Environment Agency | 2014 | This should give full consideration to the outputs of Action Plan item SDAD.PSA3.1.1 and link with Action Plan item SDAD.PSA3.2.3. This work will inform future management decisions, including the Strategy Study in Action Plan item SDAD.PSA3.3.1. |
| | SDAD.PSA3.2.5 | 5g23 | Carry out a study to investigate the effects of SMP policy of NAI on Mesolithic Sites Near Culver Well Scheduled Monument and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 3. Strategy | SDAD.PSA3.3.1 | 5g12 to 5g23 | Develop a Strategy Study to draw together the various studies proposed for this policy scenario area into a single coherent overarching strategy for the long term management of coastal flood and erosion risk for the area. This should also consider the longer-term flood and coastal erosion risk management issues facing the area such as strategic assessment of risks to transport infrastructure including the A353 Preston Beach Road and the A354 Portland Beach Road as well as updating previous studies valuations of these transport links; and detailed assessment of erosion risks to property and infrastructure in cliffed areas where intervention may not occur. This should also include investigation of the risks posed to Lodmoor landfill site in the long-term. | Defra/ Environment Agency | Environment Agency | 2020 | The Strategy Study is to follow improved understanding of coastal processes in Action Plan item SDAD.PSA3.1.1 and to utilise information from Action Plan items SDAD.PSA3.1.2, SDAD.PSA3.2.1, SDAD.PSA3.2.2, SDAD.PSA3.2.3, SDAD.PSA3.2.4 and SDAD.PSA3.6.2. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. Refer also to outcomes of SMP wide Action Plan item |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|--------------|---|--|--|------------------------------|---|
| | | | This strategy should also include a detailed update of coastal defence data for the area. | | | | SDAD.ALL.1.1. |
| 4. Scheme Work | SDAD.PSA3.4.1 | 5g12 to 5g23 | To be defined by the various studies identified in this Action Plan, but is anticipated to include works to Weymouth Esplanade, Weymouth Harbour Walls, Westham Bridge and potentially parts of the north-west shore of Portland Harbour. | Defra/ Environment Agency | Environment Agency/Weymouth & Portland Borough Council | To be determined | The need for works will be determined from the various studies identified in Action Plan items SDAD.PSA3.2.1, SDAD.PSA3.2.2, SDAD.PSA3.2.3, SDAD.PSA3.2.4, as well as the Strategy Study in Action Plan item SDAD.PSA3.3.1. |
| 5. Coastal Monitoring (ongoing) | SDAD.PSA3.5.1 | 5g12 to 5g23 | In addition to continued monitoring by Channel Coastal Observatory, undertake a period of more intensive monitoring to inform subsequent modelling, to better understand sediment regimes and coastal processes in the area and inform future coastal management. | Defra/ Environment Agency | Environment Agency | 2012 | This period of more intensive monitoring is required to inform Action Plan item SDAD.PSA3.1.1, as well as the various studies identified in Action Plan items SDAD.PSA3.2.1, SDAD.PSA3.2.2, SDAD.PSA3.2.3, SDAD.PSA3.2.4, as well as the Strategy Study in Action Plan item SDAD.PSA3.3.1. Refer also to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3 that will also contribute to the improved understanding of coastal processes in this area. |
| | SDAD.PSA3.5.2 | 5g21 | Consider extending coverage of beach profile monitoring to include Hamm Beach to provide information for future | Defra/ Environment Agency | Channel Coastal Observatory | 2011 | Currently no information is collected for Hamm Beach. Medium to long term management decisions will require information and so this should be implemented in the immediate term as part of the ongoing strategic coastal monitoring programme. Refer also to SMP wide Action Plan item SDAD.ALL.5.1. |
| 6. Asset Management | SDAD.PSA3.6.1 | 5g12 to 5g23 | Maintenance of defences and beaches including management of public access to deliver Hold the Line policy would be considered as part of the various studies identified for locations along this policy scenario area. | Defra/ Environment Agency | Environment Agency/Weymouth & Portland Borough Council | ongoing | Refer to Action Plan items SDAD.PSA3.2.1, SDAD.PSA3.2.2, SDAD.PSA3.2.3, SDAD.PSA3.2.4 and SDAD.PSA3.3.1. |
| | SDAD.PSA3.6.2 | 5g12 to 5g23 | Ensure that roles and responsibilities for management and maintenance of Portland Harbour Breakwaters are agreed with all relevant organisations to provide basis for future management decisions to be developed in the Strategy Study. In support of this, an investment plan including funding options and implications of climate change should be created. | n/a | Environment Agency | 2013 | This should be undertaken as soon as possible and is to be informed by Action Plan item SDAD.PSA3.1.1. This work will inform future management decisions, including the Strategy Study in Action Plan item SDAD.PSA3.3.1. |
| 7. Communication | SDAD.PSA3.7.1 | 5g12 to 5g23 | Undertake consultation with key stakeholders and general public during studies and strategy development to ensure an acceptable approach for the future management of coastal flood and erosion is developed. | Defra/ Environment Agency | Environment Agency / Weymouth & Portland Borough Council | ongoing | This will form a key component in the development of the various studies identified in Action Plan items SDAD.PSA3.2.1, SDAD.PSA3.2.2, SDAD.PSA3.2.3, SDAD.PSA3.2.4, as well as the Strategy Study in Action Plan item SDAD.PSA3.3.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | SDAD.PSA3.9.1 | 5g21 | Review emergency response plan to prepare for large events that cause significant overwash/overtopping and/or breaching/roll-back of Chesil Beach that could impact on the A354 Portland Beach Road. | n/a | Environment Agency | 2012 | This review could be undertaken upon adoption of the SMP but should be reviewed further upon completion of more detailed studies as they occur. Refer also to Action Plan item SDAD.PSA4.9.1. |
| 10. Adaptation / Resilience | SDAD.PSA3.10.1 | 5g12 to 5g23 | Build in capacity to allow for incremental adaptation to beach and defence management for Weymouth and Portland as part of the various studies identified for this policy scenario area, as well as the Strategy Study to manage risks from rising sea level in medium and long term. | n/a | Environment Agency | ongoing | This will form a key component in the development of the various studies identified in Action Plan items SDAD.PSA3.2.1, SDAD.PSA3.2.2, SDAD.PSA3.2.3, SDAD.PSA3.2.4, as well as the Strategy Study in Action Plan item SDAD.PSA3.3.1. |
| | SDAD.PSA3.10.2 | 5g12 | Engage with other organisations and general public to inform them of the potential | Defra/ | Environment | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 and |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|--------------|---|--|-------------------------------|------------------------------|--|
| | | to 5g23 | future risks of flood and coastal erosion as a result of SMP policies and work with these to develop plans for adapting to the changing risk. | Environment Agency | Agency | | SDAD.ALL.10.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA3.12.1 | 5g21 | Quantify habitat losses and gains, and where required, identify and secure compensatory habitat through the RHCP for intertidal habitat losses within Chesil Beach and the Fleet SAC. | Defra/ Environment Agency | Environment Agency | ongoing | This task should be undertaken in combination with Action Plan item SDAD.ALL.12.1. |
| 13. Funding | SDAD.PSA3.13.1 | 5g12 to 5g23 | Investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area. | n/a | Environment Agency | ongoing | This should be considered during the development of the various studies identified in Action Plan items SDAD.PSA3.2.1, SDAD.PSA3.2.2, SDAD.PSA3.2.3, SDAD.PSA3.2.4, as well as the Strategy Study in Action Plan item SDAD.PSA3.3.1.,to ensure that all possible options are considered. |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.4 Policy Scenario Area 4 (PSA4) – Portland Bill to Thorncombe Beacon

This scenario area extends from Portland Bill to Thorncombe Beacon (policy units 6a01 to 6a13) along the easternmost part of Lyme Bay. It is dominated for most of this length by Chesil Beach. Defences occur at either end of this unit at Chiswell (6a02) and West Bay (6a11 and 6a12). Beach management also occurs at Freshwater Beach (6a09) to reduce the risk of flooding to the village of Burton Bradstock. Chesil Beach itself also provides a natural sea defence, notably to the A354 Portland Beach Road which is a critical highway link between the community of Portland and the rest of the UK.

There are a number of flood and coastal erosion risk management issues to be addressed within the area in the immediate term, not least:

- Sustainability of current management practices to reduce flood risk to the developed areas of Chiswell (6a02) and West Bay, particularly at East Beach (6a11);
- Need to engage and work with communities to develop adaptation plans for adjusting to future coastal change in areas where the policy is for No Active Intervention to occur;
- Consideration of how best to address risk to transport provision in this area along Portland Beach Road where there will remain a risk to this road from potential overwashing/overtopping and even breaching of Chesil Beach for which the policy is one of limited intervention to repair the defence function of the beach as and when required (6a03).

A key uncertainty underpinning decisions about the future management in this area is an insufficient understanding of the existing coastal processes. In particular there is insufficient understanding about how Chesil Beach evolves and responds to different wave, wind and tide conditions and how these responses may be affected by climate change and sea level rise. Action to improve coastal processes understanding through ongoing and more intensive monitoring needs to be taken in the immediate term to provide much better information on which to base future management decisions.

These issues and uncertainties are to be addressed in the first instance by a Strategy Study for this area.

Please note, that whilst the following Table 6.7 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.7 Actions for the policy scenario area between Portland Bill and Thorncombe Beacon (Policy Units 6a01 to 6a13)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|------------------------|---|--|---|------------------------------|---|
| 1. Studies for Policy Scenario Area | SDAD.PSA4.1.1 | 6a01 to 6a13 | Undertake a thorough review and update of coastal processes understanding of the entire area, to underpin future coastal management decisions. | Defra/ Environment Agency | West Dorset District Council / Environment Agency | 2015 | This coastal process study should occur before or as part of the Strategy Study in Action Plan item SDAD.PSA4.3.1, and be informed by information from Action Plan item SDAD.PSA4.5.1. |
| 2. Studies for Policy Units | SDAD.PSA4.2.1 | 6a02, 6a03, 6a09, 6a11 | Review and update the Chesil (Portland to Small Mouth) Beach Management Plan and East and Freshwater Beach Management Plan following completion of strategy in Action Plan item SDAD.PSA4.3.1. | Defra/ Environment Agency | Environment Agency | 2017 | This should occur following completion of the Strategy Study in Action Plan item SDAD.PSA4.3.1. |
| | SDAD.PSA4.2.2 | 6a04 | Carry out a study to investigate the effects of SMP policy on St Peter's Abbey Scheduled Monument and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage- | To be determined- | Refer also to Action Plan item SDAD.ALL.10.1. |
| 3. Strategy | SDAD.PSA4.3.1 | 6a01 to 6a13 | Undertake a Strategy Study to determine the best approaches for delivering the policies and develop a programme of works. Include a detailed assessment of coastal defence condition and long term sustainable defence requirements in response to the combined effects of predicted cliff recession and beach crest lowering, including realigned defences at Freshwater Beach and East Beach, West Bay. This could also include investigating the risks posed by coastal change to the Old Brewery landfill site | Defra/ Environment Agency | West Dorset District Council / Environment Agency | 2016 | The Strategy Study is to follow improved understanding of coastal processes in Action Plan item SDAD.PSA4.1.1. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| 4. Scheme Work | SDAD.PSA4.4.1 | 6a01 to 6a13 | Whilst schemes are to be defined by strategy, opportunities should be sought at scheme level to improve landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | West Dorset District Council / Environment Agency | To be determined | The need for works will be determined from the Strategy Study in Action Plan item SDAD.PSA4.3.1. |
| 5. Coastal Monitoring (ongoing) | SDAD.PSA4.5.1 | 6a01 to 6a13 | In addition to continued monitoring by Plymouth Coastal Observatory, undertake a period of more intensive monitoring to inform subsequent modelling, to better understand sediment regimes and coastal processes in the area and inform future coastal management and development of adaptation plans in areas where No Active Intervention is to occur. For example, monitoring of recession rates and beach sediment movements at West Bexington and Hive Beach. | Defra/ Environment Agency | Environment Agency | 2012 | This period of more intensive monitoring is required to inform Action Plan item SDAD.PSA4.1.1. Refer also to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3 that will also contribute to the improved understanding of coastal processes in this area. |
| | SDAD.PSA4.5.2 | 6a02 | In order to improve processes understanding, install additional tide and wave monitoring, possibly a land based system, at Chiswell. | Defra/ Environment Agency | Environment Agency | 2012 | Improvements to monitoring data at Chiswell are required to improve understanding of how wave and tide levels at this location affect flood risk. |
| 6. Asset Management | SDAD.PSA4.6.1 | 6a02 | Review maintenance requirements for the gabion defences at Chiswell and upgrade and improve these as necessary. | Defra/ Environment Agency | Environment Agency | 2011 | This review will both ensure the gabions are adequately maintained in the immediate term and provide detailed information to inform the Strategy Study in Action Plan item SDAD.PSA4.3.1. |
| | SDAD.PSA4.6.2 | 6a12 | Develop a Beach Management Plan for West Beach, West Bay to ensure that there is a robust plan for managing the beach and associated hard defence structures such that defence provision continues to be provided at the required standard. | Defra/ Environment Agency | West Dorset District Council | 2011 | This should be undertaken in advance of the Strategy Study in Action Plan item SDAD.PSA4.3.1 and could be reviewed further upon completion of the Strategy Study. |
| 7. Communication | SDAD.PSA4.7.1 | 6a01 to 6a13 | Undertake consultation with key stakeholders and general public during strategy development to ensure an acceptable approach for the future management of coastal flood and erosion is developed. | Defra/ Environment Agency | West Dorset District Council / Environment Agency | 2016 | This action should be undertaken in combination with Action Plan item SDAD.PSA4.3.1. |
| 8. Planning | - | - | - | - | - | - | - |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|------------------------------|---|--|---|------------------------------|--|
| 9. Contingency Planning & Emergency Response | SDAD.PSA4.9.1 | 6a03 | Review emergency response plan to prepare for large events that cause significant overwash/overtopping and/or breaching/roll-back of Chesil Beach that could impact on the A354 Portland Beach Road. | n/a | Environment Agency | ongoing | This review could be undertaken upon adoption of the SMP. Refer also to SMP wide Action Plan item SDAD.ALL.9.1 but should be reviewed further upon completion of more detailed studies as they occur. Refer also to Action Plan item SDAD.PSA3.9.1. |
| 10. Adaptation / Resilience | SDAD.PSA4.10.1 | 6a03 to 6a08 | In areas where the policy is for No Active Intervention to occur, engage and work with communities to begin to develop adaptation plans for adjusting to future coastal change. This should include a plan for managing and mitigating the potential impacts to West Bexington from NAI policy, to both properties and the car park. | n/a | Environment Agency | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 and SDAD.ALL.10.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA4.12.1 | 6a01 to 6a11 | Quantify habitat losses and gains, and where required, identify and secure compensatory habitat through the RHCP for intertidal habitat losses within Chesil Beach and the Fleet SAC. Should further human intervention be required at 6a02, carry out detailed modelling and investigation at the project level to identify adverse effects on Chesil Beach and the Fleet SAC. | Defra/ Environment Agency | Environment Agency | ongoing | This task should be undertaken in combination with Action Plan item SDAD.ALL.12.1. |
| 13. Funding | SDAD.PSA4.13.1 | 6a02, 6a03, 6a09, 6a11, 6a12 | Investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area. | n/a | West Dorset District Council / Environment Agency | ongoing | This should be considered during the development of the Strategy Study in Action Plan item SDAD.PSA4.3.1 to ensure that all possible options are considered. |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |
| NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type. | | | | | | | |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.5 Policy Scenario Area 5 (PSA5) – Thorncombe Beacon to Beer Head, including Axe Estuary

This scenario area extends from Thorncombe Beacon to Beer Head (policy units 6a01 to 6a13). Much of this length is comprised of undefended, natural cliffs that experience infrequent but large scale landslide events. These cliffed areas are interspersed with areas of development such as Seatown, Charmouth, Lyme Regis, Seaton and Beer. This area also encompasses the Axe Estuary, within which there is potential to implement Managed Realignment.

There is a range of flood and coastal erosion risk management issues to be addressed within the area in the immediate term, including:

- Sustainability of current management practices to reduce erosion risk to Seatown (6a15) and Charmouth (6a18) given the significant risk for future large landslide events along adjacent undefended cliffs to outflank these areas;
- Need to engage and work with communities to develop adaptation plans for adjusting to future coastal change in areas where the policy is for defence provision to be withdrawn in the medium to long term;
- Long term requirements for providing defence to Lyme Regis (6a20 to 6a22), Seaton (6a28 to 6a30) and Beer (6a32) in a sustainable way; and
- Investigation of Managed Realignment opportunities in the Axe Estuary (6a25 to 6a28).

In areas where the policy is for defence provision is to be withdrawn in the medium to long term then engagement with communities should begin to develop adaptation plans for when this change occurs, in line with the relevant SMP wide Action Plan items in Section 6.2.

The issues at Charmouth and Lyme Regis should be considered as part of a single Strategy Study as there is significant interaction and relationship along this part of the coastline in particular, as well as similar risks posed to the areas from future landslide events.

Similarly, the issues in the Axe Estuary and along the open coast from Seaton to Beer Head all have significant interactions in terms of processes and so these issues should also be considered as part of a single Strategy Study.

Future decisions here will also be need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.8 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.8 Actions for the policy scenario area between Thorncombe Beacon and Beer Head (Policy Units 6a14 to 6a33)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|---------------|--|--|---|------------------------------|---|
| 1. Studies for Policy Scenario Area | - | - | - | - | - | - | - |
| 2. Studies for Policy Units | SDAD.PSA5.2.1 | 6a18 and 6a19 | Carry out a study to investigate the risks posed by landfill sites in Charmouth and the refuse tip. | To be determined | West Dorset District Council / Environment Agency | To be determined | This could be undertaken in combination with Action Plan item SDAD.PSA5.3.1. |
| | SDAD.PSA5.2.2 | 6a14 to 6a33 | Carry out a study to investigate the effects of SMP policy on the historic features present and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 3. Strategy | SDAD.PSA5.3.1 | 6a18 to 6a22 | Undertake a Strategy Study for Lyme Regis and Charmouth to determine the best approaches for delivering the policies and develop a programme of works. Include a detailed assessment of coastal defence condition and long term sustainable defence requirements for Lyme Regis as well as ensuring that coastal process interactions along this frontage are well understood and accounted for in any future management decisions. At Charmouth, investigation of Managed Realignment requirements to reduce tidal flooding in the River Char as sea levels rise is required. | Defra/ Environment Agency | West Dorset District Council / Environment Agency | 2016 | This strategy will be informed by ongoing monitoring. Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. Consideration could also be given to undertaking this strategy alongside strategies discussed in Action Plan items SDAD.PSA5.3.2 and SDAD.PSA6.3.1. |
| | SDAD.PSA5.3.2 | 6a24 to 6a33 | Undertake a Strategy Study for the Axe Estuary, Seaton and Beer to determine the best approaches for delivering the policies and develop a programme of works. Include a detailed assessment of coastal defence condition and long term sustainable defence requirements as well as ensuring that coastal and estuarine process interactions along this frontage are well understood and accounted for in any future management decisions. Detailed investigation of Managed Realignment options in the Axe Estuary will also need to consider ongoing navigation and highway infrastructure (e.g. Axmouth road bridge) needs and preservation of the Seaton Tramway. | Defra/ Environment Agency | Environment Agency / East Devon District Council | 2016 | This strategy will be informed by ongoing monitoring. Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. Consideration could also be given to undertaking this strategy alongside strategies discussed in Action Plan items SDAD.PSA5.3.1 and SDAD.PSA6.3.1. |
| 4. Scheme Work | SDAD.PSA5.4.1 | 6a14 to 6a33 | To be defined by strategy. Any defence works should avoid obscuring the cliff face and by sympathetically designed to avoid damage to the geological features of the earth heritage sites. Schemes should also seek opportunities to both improve the favourable condition of the designated terrestrial habitats through changes in their grazing/scrub management in areas of proposed managed realignment and improve the landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | Environment Agency / West Dorset District Council / East Devon District Council | To be determined | The requirements for defence works should be informed by the outcomes of the strategy studies in Action Plan items SDAD.PSA5.3.1 and SDAD.PSA5.3.2. |
| | SDAD.PSA5.4.2 | 6a20 and 6a21 | Progress Phases 4 and 5 of the Lyme Regis Environmental Improvements Scheme to construction as soon as possible to reduce the risk of erosion to Lyme Regis. | Defra/ Environment Agency | West Dorset District Council | 2012 | These schemes should be undertaken in advance of completion of any strategy identified in Action Plan item SDAD.PSA5.3.1. Phase 5 should also be undertaken with consideration of Action Plan item SDAD.PSA5.6.1. |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| | SDAD.PSA5.5.1 | 6a21 and 6a22 | Continue to monitor the condition of the Cobb at Lyme Regis to inform future management decisions. | Defra/ Environment Agency | West Dorset District Council | ongoing | Information about the condition of the Cobb will inform future management decisions and should be utilised in Action Plan items SDAD.PSA5.3.1 and SDAD.PSA5.6.1. |
| 6. Asset Management | SDAD.PSA5.6.1 | 6a21 | Develop a Beach Management Plan for the central part of Lyme Regis to ensure that there is a robust plan for managing the beach and associated hard defence structures such that defence provision continues to be provided at the required standard. | Defra/ Environment Agency | West Dorset District Council | 2011 | This should be undertaken in advance of the Strategy Study in Action Plan item SDAD.PSA5.3.1 and could be reviewed further upon completion of the Strategy Study. This should also be considered in the context of Lyme Regis |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|--|--|--|---|------------------------------|---|
| | | | | | | | Environmental Improvement Scheme Phase 5, with reference to Action Plan item SDAD.PSA5.4.2. |
| | SDAD.PSA5.6.2 | 6a15 | Review Asset Management Plan for defences at Seatown to ensure that it is robust and provides adequate protection for the continued maintenance of the defences to prolong their effective life for as long as possible. | Defra/ Environment Agency | West Dorset District Council | 2011 | This should be undertaken in advance of the Strategy Study in Action Plan item SDAD.PSA5.3.1 and could be reviewed further upon completion of the Strategy Study. |
| | SDAD.PSA5.6.3 | 6a18 | Review Asset Management Plan for defences at Charmouth to ensure that it is robust and provides adequate protection for the continued maintenance of the defences to prolong their effective life for as long as possible. | Defra/ Environment Agency | West Dorset District Council | 2011 | This should be undertaken in advance of the Strategy Study in Action Plan item SDAD.PSA5.3.1 and could be reviewed further upon completion of the Strategy Study. |
| 7. Communication | SDAD.PSA5.7.1 | 6a18 to 6a22 and 6a24 to 6a33 | Undertake consultation with key stakeholders and general public during strategy development to ensure an acceptable approach for the future management of coastal flood and erosion is developed. | Defra/ Environment Agency | West Dorset District Council / East Devon District Council / Environment Agency | 2016 | To be done in combination with Action Plan item SDAD.PSA5.3.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | SDAD.PSA5.9.1 | 6a14 to 6a33 | Review emergency response plan to prepare for sudden large landslide events that cause significant cliff recession that could affect developed areas. | n/a | Local Authorities | ongoing | This review could be undertaken upon adoption of the SMP. Refer also to SMP wide Action Plan item SDAD.ALL.9.1 but should be reviewed further upon completion of more detailed studies as they occur. Refer also to Action Plan item SDAD.PSA3.9.1. |
| 10. Adaptation / Resilience | SDAD.PSA5.10.1 | 6a14, 6a15, 6a18, 6a19, 6a23, 6a30, 6a31, 6a32 | In areas where the policy is for No Active Intervention or Managed Realignment to occur in the future, engage and work with communities to begin to develop adaptation plans for adjusting to future coastal change. | n/a | Environment Agency / Local Authorities | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 and SDAD.ALL.10.1. |
| | SDAD.PSA5.10.2 | 6a18 to 6a22 and 6a24 to 6a33 | Build in capacity to allow for incremental adaptation to beach and defence management for Charmouth, Lyme Regis, Seaton and Beer to manage risks from rising sea level in medium and long term. | Defra/ Environment Agency | West Dorset District Council / East Devon District Council / Environment Agency | ongoing | This item is to be completed as part of the strategy studies in Action Plan items SDAD.PSA5.3.1 and SDAD.PSA5.3.2. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA5.12.1 | 6a24 to 6a28 | Habitat creation potential within the Axe Estuary should work with the Regional Habitat Creation Programme to deliver benefits to the wider region. | Defra/ Environment Agency | Environment Agency | ongoing | Refer also to SMP wide Action Plan item SDAD.ALL.12.1. |
| | SDAD.PSA5.12.2 | 6a14 to 6a33 | Identify areas for the removal of defences within Sidmouth to West Bay SAC to compensate for loss of cliff exposure in locations where holding the line. | Defra/ Environment Agency | West Dorset District Council / East Devon District Council / Environment | ongoing | This should be considered as part of Action Plan items SDAD.PSA5.3.1 and SDAD.PSA5.3.2. |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|-------------------------------|---|--|---|------------------------------|---|
| | | | | | Agency | | |
| 13. Funding | SDAD.PSA5.13.1 | 6a18 to 6a22 and 6a24 to 6a33 | Investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area. For example, where defence works could provide enhanced amenity, then co-funding of a scheme would be more likely to deliver defence and amenity enhancements than a purely flood and coastal defence budget funded scheme would not. | n/a | West Dorset District Council / East Devon District Council / Environment Agency | ongoing | This should be considered during the development of the strategy studies in Action Plan items SDAD.PSA5.3.1 and SDAD.PSA5.3.2 to ensure that all possible options are considered. |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |
| NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type. | | | | | | | |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.6 Policy Scenario Area 6 (PSA6) – Beer Head to Otterton Ledge

This scenario area extends from Beer Head to Otterton Ledge (policy units 6a34 to 6a38). Much of this length is comprised of undefended, naturally eroding cliffs. The town of Sidmouth is located in the middle of this unit (6a35 and 6a36), and the village of Branscombe is located towards Beer Head (within 6a34).

There is a range of flood and coastal erosion risk management issues to be addressed within the area in the immediate term, including:

- The sustainability of defence provision at Sidmouth needs to be investigated, particularly on the eastern side of the town (6a35) where there is a risk of outflanking due to recent increased recession rates that have occurred since beach levels at the cliff toe reduced. The plan here is to utilise soft engineering techniques to restore and maintain a healthy beach level such that erosion of the cliffs occurs at a slower, more natural rate as occurs in the cliffs to the east where beach levels are naturally healthier. There is significant uncertainty about how best this could be achieved and hence it requires more detailed study as part of an overall strategy for Sidmouth.
- Need to engage and work with communities to develop adaptation plans for adjusting to future coastal change in areas where the policy is for No Active Intervention or Managed Realignment to occur;

Future decisions here will also be need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under ‘Action Type – 5. Coastal Monitoring (ongoing)’ in Table 6.3).

Please note, that whilst the following Table 6.9 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.9 Actions for the policy scenario area between Beer Head to Otterton Ledge (Policy Units 6a34 to 6a38)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|--------------|--|--|--|------------------------------|---|
| 1. Studies for Policy Scenario Area | - | - | - | - | - | - | - |
| 2. Studies for Policy Units | - | - | - | - | - | - | - |
| 3. Strategy | SDAD.PSA6.3.1 | 6a34 to 6a38 | Undertake a Strategy Study for Sidmouth to determine the best approaches for delivering the policies and develop a programme of works. Include a detailed assessment of coastal defence condition and long term sustainable defence requirements for Sidmouth as well as ensuring that coastal process interactions along this whole frontage are well understood and accounted for in any future management decisions. | Defra/ Environment Agency | East Devon District Council / Environment Agency | 2014 | The Strategy Study should be informed by a greater body of data from the ongoing coastal monitoring programme, but should be undertaken in the near future to address concerns about recent increases in the rate of cliff recession that have occurred since the beach level to the east of the River Sid lowered. Consideration could also be given to undertaking this strategy alongside strategies discussed in Action Plan items SDAD.PSA5.3.1 and SDAD.PSA5.3.2. Refer also to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 4. Scheme Work | SDAD.PSA6.4.1 | 6a35, 6a36 | To be defined by strategy. Any defence works should avoid obscuring the cliff face and by sympathetically designed to avoid damage to the geological features of the earth heritage sites. Any schemes should also seek opportunities both to improve the favourable condition of the designated terrestrial habitats through changes in their grazing/scrub management in areas where holding the line (Sidmouth) or in the River Sid policy unit, and to improve the landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | East Devon District Council / Environment Agency | To be determined | The requirements for defence works should be informed by the outcomes of the strategy stud7 in Action Plan item SDAD.PSA6.3.1. |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA6.6.1 | 6a36 | Review the Sidmouth Beach Management Plan to ensure that there is a robust plan for managing the beach and associated hard defence structures such that defence provision continues to be provided at the required standard. This review should ensure that sufficient consideration is given to managing the beach to the east of the River Sid in advance of the Strategy Study as required in Action Plan item SDAD.PSA6.3.1. | Defra/ Environment Agency | East Devon District Council | 2011 | This should be undertaken in advance of the Strategy Study in Action Plan item SDAD.PSA6.3.1 and could be reviewed further upon completion of the Strategy Study. |
| 7. Communication | SDAD.PSA6.7.1 | 6a34 to 6a38 | Undertake consultation with key stakeholders and general public during strategy development to ensure an acceptable approach for the future management of coastal flood and erosion is developed. | Defra/ Environment Agency | East Devon District Council / Environment Agency | 2014 | This item is to be undertaken in combination with Action Plan item SDAD.PSA6.3.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA6.10.1 | 6a35, 6a36 | Build in capacity to allow for incremental adaptation to beach and defence management for Sidmouth to manage risks from rising sea level in medium and long term. | Defra/ Environment Agency | East Devon District Council / Environment Agency | ongoing | This item is to be undertaken as part of the Strategy Study in Action Plan item SDAD.PSA6.3.1. |
| | SDAD.PSA6.10.2 | 6a34, 6a37, | In areas where the policy is for No Active Intervention or Managed Realignment to occur in the future, engage and work with communities to begin to develop adaptation | n/a | East Devon District | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|--------------|---|--|--|------------------------------|--|
| | | 6a38 | plans for adjusting to future coastal change. | | Council / Environment Agency | | and SDAD.ALL.10.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA6.12.1 | 6a34 to 6a38 | Identify areas for the removal of defences within Sidmouth to West Bay SAC to compensate for loss of cliff exposure in locations where holding the line. | Defra/ Environment Agency | East Devon District Council / Environment Agency | ongoing | This should be considered as part of Action Plan item SDAD.PSA6.3.1. |
| 13. Funding | SDAD.PSA6.13.1 | 6a35, 6a36 | Investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area. | n/a | East Devon District Council / Environment Agency | ongoing | This should be considered during the development of the Strategy Study in Action Plan item SDAD.PSA6.3.1 to ensure that all possible options are considered. |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |
| NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type. | | | | | | | |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.7 Policy Scenario Area 7 (PSA7) – Otterton Ledge to Straight Point, including Otter Estuary

This scenario area extends from Otterton Ledge to Straight Point (policy units 6a39 to 6a42) and encompasses both the Otter Estuary, within which there is potential for Managed Realignment, and the town of Budleigh Salterton.

The main issue to be addressed here in the immediate term from a flood and coastal risk management point of view is the need to investigate Managed Realignment opportunities within the Otter Estuary (6a39). A study is therefore required to both investigate the potential for Managed Realignment as well as linkages with the open coast along the Budleigh Salterton frontage.

Future decisions here will also be need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.10 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.10 Actions for the policy scenario area between Otterton Ledge and Straight Point (Policy Units 6a39 to 6a42)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|--------------|--|--|--|------------------------------|--|
| 1. Studies for Policy Scenario Area | SDAD.PSA7.1.1 | 6a39 to 6a42 | Undertake a study to investigate Managed Realignment opportunities within the Otter Estuary, ensuring that full consideration given to understanding of coastal and estuarine process interactions within this whole area. This study would also provide information to inform future management decisions along the Budleigh Salterton frontage. This study could also investigate the risks posed by the disused landfill site in this area. | Defra/ Environment Agency | Environment Agency | 2020 | Giving consideration to the timings of other studies in the adjacent areas, this study is not as urgently required to inform future management decisions along the Budleigh Salterton frontage. This study should, however, be undertaken in advance of the next SMP review to inform future management decisions. Such a study will be well informed by continued coastal monitoring. Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| | SDAD.PSA7.1.2 | 6a39 to 6a42 | Carry out a study to investigate the effects of SMP policy on the listed buildings at risk and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 2. Studies for Policy Units | - | - | - | - | - | - | - |
| 3. Strategy | - | - | - | - | - | - | - |
| 4. Scheme Work | SDAD.PSA7.4.1 | 6a39 to 6a42 | Should any defence works be required, any defence works should avoid obscuring the cliff face and by sympathetically designed to avoid damage to the geological features of the earth heritage sites. Any schemes should also seek opportunities to improve landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | Environment Agency / East Devon District Council | To be determined | The need for any defence works will be guided by Action Plan item SDAD.PSA7.1.1. |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | - | - | - | - | - | - | - |
| 7. Communication | SDAD.PSA7.7.1 | 6a39 to 6a42 | Undertake consultation with key stakeholders and general public during study development to ensure an acceptable approach for the future management of coastal flood and erosion risk is developed. | Defra/ Environment Agency | Environment Agency / East Devon District Council | 2020 | This item is to be undertaken in combination with Action Plan item SDAD.PSA7.1.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | - | - | - | - | - | - | - |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA7.12.1 | 6a39 to 6a42 | Habitat creation potential within the Otter Estuary should work with the Regional Habitat Creation Programme to deliver benefits to the wider region. This should include quantifying habitat losses and gains and, where required, identify sites for replacement intertidal habitat. | Defra/ Environment Agency | Environment Agency | 2020 | Refer also to SMP wide Action Plan item SDAD.ALL.12.1. |
| 13. Funding | - | - | - | - | - | - | - |
| 14. SMP Management | - | - | - | - | - | - | - |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|-------------|--------------------|--|-------------------------------|------------------------------|--|
| and Monitoring | | | | | | | |
| NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type. | | | | | | | |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.8 Policy Scenario Area 8 (PSA8) – Straight Point to Holcombe, including Exe Estuary

This scenario area extends from Straight Point to Holcombe and encompasses the Exe Estuary (policy units 6a43 to 6b24). In this area there are several large (and numerous smaller) settlements including Exeter, Exmouth and Dawlish. The Exe Estuary itself is extensively designated for its environmental features. The banks of the estuary and the coast towards Holcombe, to the south of Dawlish Warren, are also lined by railway infrastructure, including the mainline railway that connects the wider South-West to the rest of the UK.

A significant issue in this area is how best to manage the spit of Dawlish Warren (6b19 to 6b22) in a sustainable way in the long term, such that its function as a flood defence for the wider inner estuary is maintained whilst environmental concerns are addressed. There are also areas where Managed Realignment could potentially be undertaken to create new habitat within the Exe Estuary to provide compensation for loss of habitat as a result of coastal squeeze in other parts of the estuary where the policy is to retain defences. The long term sustainable defence of the open coast frontages of Exmouth and Dawlish also needs to be investigated in detail.

The majority of these issues are to be addressed in the first instance by the Exe Estuary Strategy Study that has recently been commissioned by the Environment Agency (January 2010). The continued defence along the open coast of Dawlish from Langstone Rock to Holcombe (6b23 and 6b24) will be provided through continued defence of the mainline railway and will be considered separate from the Strategy Study.

Future decisions here will also need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.11 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.11 Actions for the policy scenario area between Straight Point and Holcombe (Policy Units 6a43 to 6b24)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|-------------------------------|--|--|---|------------------------------|---|
| 1. Studies for Policy Scenario Area | SDAD.PSA8.1.1 | 6a43 to 6b24 | Carry out a study to investigate the effects of SMP policy on the heritage features at risk and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 2. Studies for Policy Units | SDAD.PSA8.2.1 | 6a44 to 6a46 and 6b20 to 6b23 | Undertake a study to investigate beach recharge works required to maintain Dawlish Warren and Exmouth Beach for at least the first epoch. | Defra/ Environment Agency | Teignbridge District Council | 2012 | This is likely to lead to subsequent schemes in order to achieve the short term policy identified in the SMP. |
| 3. Strategy | SDAD.PSA8.3.1 | 6a43 to 6b22 | Undertake a Strategy Study for Exe Estuary, including the coastal area from Straight Point to Langstone Rock, to determine the best approaches for delivering the policies and develop a programme of works. Include a detailed assessment of coastal defence condition and long term sustainable defence requirements for Exe Estuary as well as investigating Managed Realignment opportunities, ensuring that coastal process interactions along this whole frontage are well understood and accounted for in any future management decisions. This study is also to determine the most appropriate long term management options for Dawlish Warren. | Defra/ Environment Agency | Environment Agency | 2011 | The Strategy Study has already been commissioned. |
| 4. Scheme Work | SDAD.PSA8.4.1 | 6a43 to 6b24 | To be identified by Strategy. Any schemes should seek opportunities to improve landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | East Devon District Council / Teignbridge District Council / Environment Agency | To be determined | Schemes will be identified following more detailed studies, including the Strategy in Action Plan item SDAD.PSA8.3.1. |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA8.6.1 | 6b23, 6b24 | Continue ongoing maintenance and repair practices whilst keeping under review the need for any more substantive works to maintain adequate defence of the mainline railway. | Network Rail | Network Rail | ongoing | Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| 7. Communication | SDAD.PSA8.7.1 | 6a43 to 6b22 | Undertake consultation with key stakeholders and general public during strategy development to ensure an acceptable approach for the future management of flood and erosion risk is developed. | Defra/ Environment Agency | East Devon District Council / Teignbridge District Council / Environment Agency | 2011 | This item is to be undertaken in combination with Action Plan item SDAD.PSA8.3.1. |
| | SDAD.PSA8.7.2 | 6b23, 6b24 | Undertake consultation with key stakeholders and general public during scheme development to ensure an acceptable approach is developed. | Network Rail | Network Rail | ongoing | This item is to be undertaken in combination with Action Plan item SDAD.PSA8.4.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA8.10.1 | 6a43 to 6b24 | Build in capacity to allow for incremental adaptation to beach and defence management for this whole area to manage risks from rising sea level in the medium and long term. | n/a | Environment Agency / Network Rail / | ongoing | This item is to be undertaken in combination with Action Plan items SDAD.PSA8.3.1 and SDAD.PSA8.4.1. |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|--------------|--|--|-------------------------------|------------------------------|--|
| | | | | | Local Authorities | | |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA8.12.1 | 6a43 to 6b22 | Habitat creation potential within the Exe Estuary should work with the Regional Habitat Creation Programme to deliver benefits to the wider region. This should include quantifying habitat losses and gains, and identify and secure compensatory habitat for losses of dune habitat within Dawlish Warren SAC (short-term) and intertidal habitat losses within the Exe Estuary SPA and Ramsar site. | Defra/ Environment Agency | Environment Agency | 2011 | This item is also to be considered as part of Action Plan items SDAD.PSA8.3.1. Refer also to SMP wide Action Plan item SDAD.ALL.12.1. |
| 13. Funding | SDAD.PSA8.13.1 | All | As part of strategy, investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area. For example, where defence works could provide enhanced amenity, then co-funding of a scheme would be more likely to deliver defence and amenity enhancements that a purely flood and coastal defence budget funded scheme would not. | n/a | Environment Agency | ongoing | This should be considered during the development of the Strategy Study in Action Plan item SDAD.PSA8.3.1 to ensure that all possible options are considered. |
| 14. SMP Management and Monitoring | SDAD.PSA8.14.1 | All | SDADCAG to consider implications of Exe Estuary Strategy outcomes in relation to SMP policies and action plan. | SDADCAG | Teignbridge District Council | 2012 | This will occur following completion of the Exe Estuary Strategy (refer to Action Plan item SDAD.PSA8.3.1). |
| NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type. | | | | | | | |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.9 Policy Scenario Area 9 (PSA9) – Holcombe to Hope’s Nose, including Teign Estuary

This scenario area extends from Holcombe to Hope’s Nose and encompasses the Teign Estuary (policy units 6b25 to 6b44).

The frontage from Holcombe to Teignmouth and the north bank of the Teign Estuary to the developed area of Newton Abbot (6b25 to 6b33) is defended, largely through the protection of the mainline railway. The south bank of the Teign Estuary to Hope’s Nose (6b34 to 6b44) is largely comprised of undefended coast with localised defences at Maidencombe (6b37), Watcombe (6b39) and Anstey’s Cove (6b43) that are primarily for the purposes of providing access to the shoreline but that also reduce the risk of cliff recession, particularly at Oddicombe Beach (6b41). More substantial flood defences are located at Shaldon (6b35).

There is a range of flood and coastal erosion risk management issues to be addressed within the area in the immediate term, including:

- Improving the defences that protect the mainline railway to ensure that adequate levels of protection are provided in the long term;
- Investigating the long term sustainable management of flood risk to Teignmouth and within the Teign Estuary, including Managed Realignment opportunities within parts of the estuary; and
- Need to engage and work with communities to develop adaptation plans for adjusting to future coastal change in areas where the policy is for No Active Intervention or Managed Realignment to occur.

Future decisions here will also be need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under ‘Action Type – 5. Coastal Monitoring (ongoing)’ in Table 6.3).

Please note, that whilst the following Table 6.12 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.12 Actions for the policy scenario area between Holcombe and Hope's Nose (Policy Units 6b24 to 6b44)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|---------------|--|--|---|------------------------------|---|
| 1. Studies for Policy Scenario Area | SDAD.PSA9.1.1 | 6b24 to 6b44 | Carry out a study to investigate the effects of SMP policy on the heritage features at risk and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 2. Studies for Policy Units | SDAD.PSA9.2.1 | 6b25 to 6b35 | Continue the development of a coastal management study to investigate the options for long term sustainable management of flood risk to Teignmouth and other settlements and infrastructure in the Teign Estuary is required. This should consider Managed Realignment opportunities within the estuary, in particular locations around Newton Abbot, and ensure that future decisions are based upon a thorough understanding of the interactions of estuary and coastal processes. The outcomes of this study should include a programme of works or further studies. | Defra/ Environment Agency | Teignbridge District Council / Environment Agency | 2012 | The Teign Estuary Coastal Management Study is in the process of being developed by Teignbridge District Council and the Environment Agency. This should include consideration of works to upgrade the protection for the mainline railway along the open coast. Refer to Action Plan item SDAD.PSA9.4.1. |
| | SDAD.PSA9.2.2 | 6a41 | Undertake a study to investigate the future long term management needs for Oddicombe Beach, including detailed assessment of erosion risk to cliff top assets if these defences are not maintained. | Defra/ Environment Agency | Torbay Council | 2020 | This study is not urgently required as the defences here are not expected to fail in the immediate term, particularly with ongoing maintenance that is to be guided by the outcome of Action Plan item SDAD.PSA9.6.1. |
| | SDAD.PSA9.2.3 | 6b37 | Carry out a study to investigate the risks posed by the Sladnor Park landfill site at Maidencombe. | To be determined | Torbay Council | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 3. Strategy | - | - | - | - | - | - | - |
| 4. Scheme Work | SDAD.PSA9.4.1 | 6b25 | Works to upgrade the defences for the mainline railway to ensure adequate protection is provided in the future. | Network Rail | Network Rail | ongoing | Works are to be undertaken by Network Rail on a rolling basis over the period before the next SMP review, and should be guided by their studies and assessment of defence needs. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| | SDAD.PSA9.4.2 | 6b30 and 6b35 | Continue with ongoing works to upgrade the defences that protect Shaldon and Teignmouth. | Defra/ Environment Agency | Environment Agency | 2013 | This work is already ongoing and the Shaldon defences are in the process of being constructed whilst the Teignmouth scheme is in the design phase. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| | SDAD.PSA9.4.3 | 6b24 to 6b44 | Any defence works should avoid obscuring the cliff face and by sympathetically designed to avoid damage to the geological features of the earth heritage sites. Any schemes should also seek opportunities to improve landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | Environment Agency / Teignmouth District Council / Torbay Council | To be determined | This is to be considered as part of any scheme design in this area. |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA9.6.1 | 6a41 | Develop an Asset Management Plan to guide maintenance of defences at Oddicombe Beach to ensure that they continue to provide defence of the cliff toe. | Defra/ Environment Agency | Torbay Council | 2011 | This should be developed in the immediate future to ensure defences are adequately maintained in advance of the study in Action Plan item SDAD.PSA9.2.2 that will determine longer term defence requirements. |
| 7. Communication | SDAD.PSA9.7.1 | 6b25 to | Undertake consultation with key stakeholders and general public during study development and whenever appropriate to ensure an acceptable approach is developed. | Defra/ Environment | Teignbridge District Council | ongoing | This item is to be undertaken in combination with the studies in Action Plan items SDAD.PSA9.2.1 and |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|------------------|---|--|--|------------------------------|--|
| | | 6b35.6b41 | | Agency | / Torbay Council | | SDAD.PSA9.2.2. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA9.10.1 | 6b25 to 6b35 | Build in capacity to allow for incremental adaptation to beach and defence management for Teignmouth and other settlements within the Teign Estuary to manage risks from rising sea level in medium and long term. | n/a | Environment Agency / Network Rail / Local Authorities | ongoing | This item is to be undertaken in combination with Action Plan items SDAD.PSA9.2.1 and SDAD.PSA9.4.1. |
| | SDAD.PSA9.10.2 | 6b37, 6b39, 6b43 | In areas where the policy is for No Active Intervention or Managed Realignment to occur in the future, engage and work with communities to begin to develop adaptation plans for adjusting to future coastal change. | n/a | Teignbridge District Council / Torbay Council / Environment Agency | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 and SDAD.ALL.10.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA9.12.1 | 6b25 to 6b35 | Habitat creation potential within the Teign Estuary should work with the Regional Habitat Creation Programme to deliver benefits to the wider region. This should include quantifying habitat losses and gains, and identify and secure sites for replacement terrestrial/freshwater habitat. | Defra/ Environment Agency | Environment Agency | 2012 | Refer also to SMP wide Action Plan item SDAD.ALL.12.1. |
| 13. Funding | SDAD.PSA9.13.1 | 6b25 to 6b35 | As part of studies, investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area. | n/a | Environment Agency | ongoing | This should be considered during the development of the Strategy Study in Action Plan item SDAD.PSA9.2.1 to ensure that all possible options are considered. |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |
| NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type. | | | | | | | |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.10 Policy Scenario Area I0 (PSA I0) – Hope’s Nose to Berry Head (Tor Bay)

This scenario area extends from Hope’s Nose to Berry Head, encompassing the extensively developed area of Tor Bay (policy units 6b45 to 6b61).

There is a range of flood and coastal erosion risk management issues to be addressed within the area in the immediate term, including:

- Developing Asset Management Plans to guide the ongoing maintenance of defences to ensure that they are able to provide adequate protection in the immediate term;
- Investigating the long term sustainable management of flood and erosion risk to the developed areas of Torquay, Paignton and Brixham; and
- Investigating opportunities for Managed Realignment in the south of Tor Bay at Goodrington Sands and Broadsands.

These latter two points are to be addressed through development of a Strategy Study before the next review of the SMP.

Future decisions here will also be need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under ‘Action Type – 5. Coastal Monitoring (ongoing)’ in Table 6.3).

Please note, that whilst the following Table 6.13 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.13 Actions for the policy scenario area between Hope's Nose and Berry Head (Policy Units 6b45 to 6b61)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|--------------|---|--|-------------------------------|------------------------------|--|
| 1. Studies for Policy Scenario Area | - | - | - | - | - | - | - |
| 2. Studies for Policy Units | - | - | - | - | - | - | - |
| 3. Strategy | SDAD.PSA10.3.1 | 6b45 to 6b61 | Undertake a Strategy Study for Tor Bay to determine the best approaches for delivering the policies and develop a programme of works. Include a detailed assessment of coastal defence condition and long term sustainable defence requirements for Tor Bay as well as ensuring that coastal process interactions along this whole frontage are well understood and accounted for in any future management decisions. This should also include detailed investigation of Managed Realignment opportunities at Goodrington Sands and Broadsands, and investigation of the risks posed by coastal change to disused landfill sites in this area. | Defra/ Environment Agency | Torbay Council | 2020 | The Strategy Study should be informed by a greater body of data from the ongoing coastal monitoring programme. Refer also to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 4. Scheme Work | SDAD.PSA10.4.1 | 6b45 to 6b61 | To be defined by Strategy. Any defence works should avoid obscuring the cliff face and by sympathetically designed to avoid damage to the geological features of the earth heritage sites. This is to include ensuring that any new defences in units 6b55, 6b58 and 6b60 are not extended to the seacaves located in parts of these units. Any schemes should also seek opportunities to improve landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | Torbay Council | To be determined | The need for defence works are to be guided by the strategy study in Action Plan item SDAD.PSA10.3.1. |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA10.6.1 | 6b45 to 6b61 | Develop and Asset Management Plan to guide maintenance of defences and beaches along the Tor Bay frontage to ensure that they continue to provide adequate defence. | Defra/ Environment Agency | Torbay Council | 2011 | This should be developed in the immediate future to ensure defences are adequately maintained in advance of the study in Action Plan item SDAD.PSA10.3.2 that will determine longer term defence requirements. |
| 7. Communication | SDAD.PSA10.7.1 | 6b45 to 6b61 | Undertake consultation with key stakeholders and general public during strategy development and whenever appropriate to ensure an acceptable approach is developed. | Defra/ Environment Agency | Torbay Council | ongoing | This item is to be undertaken in combination with the strategy in Action Plan item SDAD.PSA10.3.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA10.10.1 | 6b45 to 6b61 | Build in capacity to allow for incremental adaptation to beach and defence management for settlements around Tor Bay to manage risks from rising sea level in medium and long term. | n/a | Torbay Council | ongoing | This item is to be undertaken in combination with Action Plan item SDAD.PSA10.3.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA10.12.1 | 6b56, 6b58 | Habitat creation potential within the Goodrington Sands and Broadsands units should work with the Regional Habitat Creation Programme to deliver benefits to the wider region. This should include quantifying habitat losses and gains, and identify and secure sites for replacement intertidal habitat. | Defra/ Environment Agency | Environment Agency | 2020 | Refer also to SMP wide Action Plan item SDAD.ALL.12.1. |
| 13. Funding | SDAD.PSA10.13.1 | 6b45 to 6b61 | As part of studies, investigate opportunities for co-funding future defence works with other organisations to provide the maximum possible benefit from such works to the area. | n/a | Torbay Council | ongoing | This should be considered during the development of the Strategy Study in Action Plan item SDAD.PSA10.2.1 to ensure that all possible options are considered. |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|-------------|--------------------|--|-------------------------------|------------------------------|--|
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.11 Policy Scenario Area II (PSAII) – Berry Head to Blackstone Point, including Dart Estuary

This scenario area extends from Berry Head to Blackstone Point (policy units 6b62 to 6b70). The open coast part of this section (6b62 and 6b63) is comprised of undefended, naturally functioning cliffs for which the policy is No Active Intervention over the next 100 years. The rest of this frontage (6b64 to 6b70) encompasses the Dart Estuary. The policy for the estuary is to allow continued defence along currently defended areas to reduce the risk of flooding, but for the majority of the currently undefended, natural estuary to function under a policy of No Active Intervention.

The main flood and erosion risk management issues for this section therefore relate to engaging and working with local communities along the open coast, particularly from Berry Head to Sharkham Point (6b62) to begin to plan adaptation measures to adjust to future coastal change.

Within the Dart Estuary a detailed Asset Management Plan should be developed to identify all defences within the estuary, who owns them, what the condition of the defences is and what standard of protection they offer. This should result in a programme of monitoring and works for the defences to ensure adequate levels of protection against flood risk are provided in the long term.

Please note, that whilst the following Table 6.14 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.14 Actions for the policy scenario area between Berry Head and Blackstone Point (Policy Units 6b62 to 6b70)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|--------------|--|--|--|------------------------------|---|
| 1. Studies for Policy Scenario Area | - | - | - | - | - | - | - |
| 2. Studies for Policy Units | - | - | - | - | - | - | - |
| 3. Strategy | - | - | - | - | - | - | - |
| 4. Scheme Work | SDAD.PSA11.4.1 | 6b62 to 6b70 | To be defined by Asset Management Plan. Any schemes should seek opportunities to improve landscape character in the AONB/Heritage Coast. | To be determined | Environment Agency / South Hams District Council | To be determined | The need for defence works will be guided by the outcomes of Action Plan item SDAD.PSA11.6.1. |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA11.6.1 | 6b64 to 6b70 | Develop Asset Management Plan to guide maintenance of defences and develop a programme of works in the Dart Estuary to ensure that they continue to provide adequate defence against the risk of flooding. This should include investigation of the risks posed by flooding to the Waterhead Creek disused landfill site and future management requirements to manage this risk. | Defra/ Environment Agency | Environment Agency / South Hams District Council | 2013 | This should be developed in the near future as there is a known issue already at Kingswear and so the Asset Management Plan would be required to guide future works in the Dart Estuary. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| 7. Communication | SDAD.PSA11.7.1 | 6b64 to 6b70 | Undertake consultation with key stakeholders and general public during Asset Management Plan development and whenever appropriate to ensure an acceptable approach is developed. | Defra/ Environment Agency | Environment Agency / South Hams District Council | ongoing | This item is to be undertaken in combination with Action Plan item SDAD.PSA11.6.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA11.10.1 | 6b62, 6b63 | Engage with other organisations and general public to inform them of the potential future risks of flood and coastal erosion as a result of SMP policies and work with these to develop plans for adapting to the changing risk. | n/a | Environment Agency / South Hams District Council | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 and SDAD.ALL.10.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA11.12.1 | 6b64 to 6b70 | Quantify habitat losses and gains, and identify and secure sites for replacement habitat. | Defra/ Environment Agency | Environment Agency / South Hams District Council | ongoing | Refer also to Action Plan item SDAD.ALL.12.1. |
| 13. Funding | SDAD.PSA11.13.1 | 6b64 to 6b70 | As part of Asset Management Plan, investigate opportunities for co-funding future defence works with other organisations/private defence owners to provide the maximum possible benefit from such works to the area. | n/a | Environment Agency / South Hams District Council | ongoing | This should be considered during the development of the Asset Management Plan in Action Plan item SDAD.PSA11.6.1 to ensure that all possible options are considered. |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|-------------|--------------------|---|----------------------------------|---------------------------------|--|
| erosion risk management routes. '-' = no action is required in relation to this action type. | | | | | | | |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.12 Policy Scenario Area 12 (PSA12) – Blackstone Point to Start Point

This scenario area extends from Blackstone Point to Start Point (policy units 6b71 to 6b79). This frontage is comprised of a number of beaches that lie between lengths of rocky cliffed coast.

The main flood and erosion risks to this frontage in the immediate term are along Slapton Sands and Beesands. The issues along Slapton Sands have already been investigated in the recent past and adaptation planning is well advanced in this area. Therefore the immediate term actions in advance of the next SMP review will be to continue this work.

At Beesands, recent defences have addressed the immediate risk of flooding and so long as these are adequately maintained then there is no immediate risk to be addressed in terms of specific actions in the immediate term.

Along the rest of this frontage there is unlikely to be significant risk that requires action in advance of the next review of the SMP, other than to continue to monitor the coastal processes and defences to ensure that they are adequately maintained. In areas where there are private defences, such as at Blackpool Sands (6b73) and Hallsands (within 6b79), then it will be up to private landowners to determine defence needs.

Engagement with local communities, such as already occurs through the Slaptonline Partnership, could also usefully be undertaken to inform of the risks of future coastal change along other parts of this frontage.

Please note, that whilst the following Table 6.15 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.15 Actions for the policy scenario area between Blackstone Point and Start Point (Policy Units 6b71 to 6b79)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|--------------|---|--|-------------------------------|------------------------------|--|
| 1. Studies for Policy Scenario Area | SDAD.PSA12.1.1 | 6b71 to 6b79 | Carry out a study to investigate the effects of SMP policy on the heritage features at risk and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 2. Studies for Policy Units | - | - | - | - | - | - | - |
| 4. Scheme Work | SDAD.PSA12.4.1 | 6b76, 6b78 | Any defence works identified in Action Plan item SDAD.PSA12.6.1 should avoid obscuring the cliff face and by sympathetically designed to avoid damage to the geological features of the earth heritage sites. Any schemes should also seek opportunities to improve landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | Environment Agency | To be determined | The need for defence works are to be guided by Action Plan item SDAD.PSA12.6.1 |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA12.6.1 | 6b76, 6b78 | Review/develop asset and Beach Management Plans for Torcross and Beesands to guide maintenance of defences and beaches along these frontages to ensure that they continue to provide adequate defence. | Defra/ Environment Agency | Environment Agency | 2011 | This should be developed in the immediate future to ensure defences are adequately maintained. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| 7. Communication | - | - | - | - | - | - | - |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA12.10.1 | 6b71 to 6b79 | Engage with other organisations and general public to inform them of the potential future risks of flood and coastal erosion as a result of SMP policies and work with these to develop plans for adapting to the changing risk. | n/a | Environment Agency | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 and SDAD.ALL.10.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA12.12.1 | 6b71 to 6b79 | Quantify habitat losses and gains, and identify and secure sites to replace freshwater habitat lost. | Defra/ Environment Agency | Environment Agency | ongoing | Refer also to Action Plan item SDAD.ALL.12.1. |
| 13. Funding | - | - | - | - | - | - | - |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.13 Policy Scenario Area 13 (PSA13) – Start Point to Bolt Head, including Salcombe/Kingsbridge Estuary

This scenario area extends from Start Point to Bolt Head and encompasses the Salcombe/Kingsbridge Estuary (policy units 6c01 to 6c08).

The main flood and erosion risk management issues for this section in the immediate term relate improving understanding of future defence requirements within the estuary. Therefore a detailed Asset Management Plan should be developed to identify all defences within the estuary, who owns them, what the condition of the defences is and what standard of protection they offer. This should result in a programme of monitoring and works for the defences to ensure adequate levels of protection against flood risk are provided in the long term.

Please note, that whilst the following Table 6.16 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.16 Actions for the policy scenario area between Start Point and Bolt Head (Policy Units 6c01 to 6c08)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|--------------|--|--|--|------------------------------|--|
| 1. Studies for Policy Scenario Area | SDAD.PSA13.4.1 | 6c01 to 6c08 | Carry out a study to investigate the effects of SMP policy on the heritage features at risk and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 2. Studies for Policy Units | - | - | - | - | - | - | - |
| 3. Strategy | - | - | - | - | - | - | - |
| 4. Scheme Work | SDAD.PSA13.4.1 | 6c01 to 6c08 | To be defined by Asset Management Plan. Any schemes should seek opportunities to improve landscape character in the AONB/Heritage Coast. | To be determined | Environment Agency / South Hams District Council | To be determined | The need for defence works will be guided by the outcomes of Action Plan item SDAD.PSA13.6.1. |
| 5. Coastal Monitoring (ongoing) | - | - | - | - | - | - | - |
| 6. Asset Management | SDAD.PSA13.6.1 | 6c03 to 6c07 | Develop Asset Management Plan to guide maintenance of defences and develop a programme of works in the Salcombe/Kingsbridge Estuary to ensure that they continue to provide adequate defence against the risk of flooding. | Defra/ Environment Agency | Environment Agency / South Hams District Council | 2020 | This should be developed in advance of the next SMP review in order to provide improved information to future policy decisions. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| 7. Communication | SDAD.PSA13.7.1 | 6c03 to 6c07 | Undertake consultation with key stakeholders and general public during Asset Management Plan development and whenever appropriate to ensure an acceptable approach is developed. | Defra/ Environment Agency | Environment Agency / South Hams District Council | 2020 | This item is to be undertaken in combination with Action Plan item SDAD.PSA13.6.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA13.10.1 | 6c01 to 6c08 | Engage with other organisations and general public to inform them of the potential future risks of flood and coastal erosion as a result of SMP policies and work with these to develop plans for adapting to the changing risk. | n/a | Environment Agency / South Hams District Council | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 and SDAD.ALL.10.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA13.12.1 | 6c03 to 6c07 | Quantify habitat losses and gains, and identify and secure sites to replace intertidal and freshwater habitat lost. | Defra/ Environment Agency | Environment Agency / South Hams District Council | ongoing | -Refer also to Action Plan item SDAD.ALL.12.1. |
| 13. Funding | SDAD.PSA13.13.1 | 6c03 to 6c07 | As part of Asset Management Plan, investigate opportunities for co-funding future defence works with other organisations/private defence owners to provide the maximum possible benefit from such works to the area. | n/a | Environment Agency / South Hams District Council | 2020 | This should be considered during the development of the Asset Management Plan in Action Plan item SDAD.PSA13.6.1 to ensure that all possible options are considered. |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|-------------|--------------------|---|----------------------------------|---------------------------------|--|
| erosion risk management routes. '-' = no action is required in relation to this action type. | | | | | | | |

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

6.3.14 Policy Scenario Area 14 (PSA14) – Bolt Head to Wembury Point, including, Avon, Erme and Yealm Estuaries

This scenario area is comprised of predominantly undefended, naturally functioning cliffed coastline between Bolt Head and Wembury Point (policy units 6c09 to 6c26). It also encompasses the Avon, Erme and Yealm Estuaries.

The main flood and coastal erosion issue to be addressed in the immediate term along this frontage is the continued provision of defence at locations such Inner and Outer Hope (within 6c10), Thurlestone (within 6c11), Bigbury-on-Sea (within 6c15), Challaborough (6c16), Newton Ferrers (6c23) and Wembury (within 6c26). These defences are for the most part privately owned and/or unlikely to attract public (flood and coastal defence budget) funding.

The main actions for this area are therefore to engage and work with the relevant organisations and land owners to identify how future defence provision may be most sustainably achieved in these areas, and if it is not possible, then assist in developing adaptation measures in line with the SMP wide Action Plan items set out in Section 6.2.

Future decisions here will also be need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under 'Action Type – 5. Coastal Monitoring (ongoing)' in Table 6.3).

Please note, that whilst the following Table 6.17 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.17 Actions for the policy scenario area between Bolt Head and Wembury Point (Policy Units 6c09 to 6c26)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|--------------|--|--|--|------------------------------|---|
| 1. Studies for Policy Scenario Area | SDAD.PSA14.1.1 | 6c09 to 6c26 | Carry out a study to investigate the effects of SMP policy on the heritage features at risk and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 2. Studies for Policy Units | - | - | - | - | - | - | - |
| 3. Strategy | - | - | - | - | - | - | - |
| 4. Scheme Work | SDAD.PSA14.4.1 | 6c09 to 6c26 | If any defence works occur in this area, then these should be sympathetically designed to avoid conflicting with the AONB Management Plan objectives and that Natural England are consulted during the development of any scheme. Indeed, any schemes should seek opportunities to improve the landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | Environment Agency / South Hams District Council | To be determined | The need for defence works are to be guided by Action Plan item SDAD.PSA14.6.1 |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA14.6.1 | 6c09 to 6c26 | Engage and work with all defence owners to appraise the condition of their defences and ensure that there is an adequate Asset Management Plan in place for ongoing maintenance in the immediate term. This should include investigation of options for long term defence provision in these areas. | Private | Environment Agency / South Hams District Council | 2020 | Ensure information on private defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| 7. Communication | SDAD.PSA14.7.1 | 6c09 to 6c26 | Undertake consultation with key stakeholders alongside private defence owners in developing either future defence scheme or adaptation measures to ensure an acceptable approach is developed. | n/a | Environment Agency / South Hams District Council | ongoing | This is to be undertaken in combination with Action Plan item SDAD.PSA14.6.1. |
| 8. Planning | - | - | - | - | - | - | - |
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA14.10.1 | 6c09 to 6c26 | Engage with other organisations and general public to inform them of the potential future risks of flood and coastal erosion as a result of SMP policies and work with these to develop plans for adapting to the changing risk. | n/a | Environment Agency / South Hams District Council | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 and SDAD.ALL.10.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA14.12.1 | 6c22 to 6c26 | Quantify habitat losses and gains, and identify and secure sites for compensatory intertidal habitat losses within the Plymouth Sound and Estuaries SAC. | Defra/ Environment Agency | Environment Agency | ongoing | Refer also to Action Plan item SDAD.ALL.12.1. |
| 13. Funding | SDAD.PSA14.13.1 | 6c09 to 6c26 | As part of investigating options for long term management of assets, investigate options for different funding sources in addition to private funds. | Private | Environment Agency / South Hams District Council | 2020 | This is to be undertaken in combination with Action Plan item SDAD.PSA14.6.1 |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |

NB. Activities from SMP will be carried forward into medium term plans that are set on a three year rolling basis and carried out on a priority basis, subject to funding and approval. n/a = activity is part of authorities general duties, not funded through flood and erosion risk management routes. '-' = no action is required in relation to this action type.

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6.3.15 Policy Scenario Area 15 (PSA15) – Wembury Point to Rame Head, including Plym and Tamar Estuaries

This scenario area extends from Wembury Point to Rame Head, encompassing the extensively developed area of Plymouth as well both the Plym and Tamar Estuaries (policy units 6c27 to 6c45).

There is a range of flood and coastal erosion risk management issues to be addressed within the area in the immediate term, including:

- Developing Asset Management Plans to guide the ongoing maintenance of defences along the developed areas of Plymouth and Kingsand/Cawsand to ensure that they are able to provide adequate protection in the immediate term;
- Improve understanding of future defence requirements within the Tamar Estuary through development of a detailed study to both investigate Managed Realignment opportunities and identify all defences within the estuary, who owns them, what the condition of the defences is and what standard of protection they offer. This should result in a programme of monitoring and works for the defences to ensure adequate levels of protection against flood risk are provided in the long term;
- Engage and work with communities in areas of erosion risk along the east and west shorelines of Plymouth Sound (6c27, 6c41, 6c43 and 6c45) to begin to develop adaptation plans where intervention will not occur; and
- Determining the requirements and responsibilities for future maintenance of the Plymouth Sound Breakwater to ensure that it is maintained and so continues to provide shelter to defences along the shoreline with the inner parts of Plymouth Sound.

Future decisions here will also be need to be based on information from continued coastal monitoring, as set out in the SMP wide actions in Section 6.2 (items under ‘Action Type – 5. Coastal Monitoring (ongoing)’ in Table 6.3).

Please note, that whilst the following Table 6.18 sets out specific actions for this policy scenario area, this should also be read in combination with the SMP wide actions set out in Section 6.2 and Table 6.3 to ensure that all actions relevant to this area are considered.

The above provides the local details in respect of the SMP-wide policy presented in the preceding sections of this Plan document. These details must be read in the context of the wider-scale issues and policy implications, as reported therein.

Table 6.18 Actions for the policy scenario area between Wembury Point and Rame Head (Policy Units 6c27 to 6c45)

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|--|------------------|------------------------|--|--|---|------------------------------|---|
| 1. Studies for Policy Scenario Area | SDAD.PSA15.1.1 | 6c27 to 6c45 | Undertake a study to investigate the importance of the Plymouth Sound Breakwater in terms of reducing wave action on shoreline defences. | Defra/ Environment Agency | Environment Agency | 2015 | This should be undertaken in advance of the next SMP review to inform future management decisions. |
| | SDAD.PSA15.1.2 | 6c27 to 6c45 | Carry out a study to investigate the effects of SMP policy on the heritage features at risk and consider mitigation measures and/or recording as appropriate. | To be determined | English Heritage | To be determined | Refer also to Action Plan item SDAD.ALL.10.1. |
| 2. Studies for Policy Units | SDAD.PSA15.2.1 | 6c31 to 6c40 | Undertake a detailed study of the Tamar Estuary to investigate Managed Realignment opportunities and future flood defence needs to develop a programme of works and further study. | Defra/ Environment Agency | Environment Agency | 2015 | This should be undertaken in advance of the next SMP review to inform future management decisions. |
| 3. Strategy | - | - | - | - | - | - | - |
| 4. Scheme Work | SDAD.PSA15.4.1 | 6c27 to 6c45 | Where 'the sandbanks slightly covered by seawater all of the time' that are a qualifying feature of the Plymouth Sound and Estuaries SAC occur, any new defences should take these features into account and be designed to minimise their reflectivity so as to avoid adverse (e.g. scour) effects on these features. | Defra/ Environment Agency | Environment Agency / Plymouth City Council / Cornwall Council | To be determined | The need for defence works is to be guided by Action Plan item SDAD.PSA15.6.1. |
| | SDAD.PSA15.4.2 | 6c44 | Any defence works at Kingsand/Cawsand should avoid obscuring the cliff face and by sympathetically designed to avoid damage to the geological features of the earth heritage sites. | Defra/ Environment Agency | Cornwall Council | To be determined | The need for defence works is to be guided by Action Plan item SDAD.PSA15.6.1. |
| | SDAD.PSA15.4.3 | 6c27 to 6c45 | Any defence works in this area should seek opportunities to improve landscape character in the AONB/Heritage Coast. | Defra/ Environment Agency | Environment Agency / Plymouth City Council / Cornwall Council | To be determined | The need for defence works is to be guided by Action Plan items SDAD.PSA15.2.1 and SDAD.PSA15.6.1. |
| 5. Coastal Monitoring (ongoing) | - | - | <i>Coastal monitoring along this section to inform future management decisions as per the SMP wide actions discussed in Section 6.2.</i> | - | - | - | Refer to SMP wide Action Plan items SDAD.ALL.5.1, SDAD.ALL.5.2 and SDAD.ALL.5.3. |
| 6. Asset Management | SDAD.PSA15.6.1 | 6c28, 6c29, 6c30, 6c44 | Review/develop Asset Management Plans for Plymouth (including the Plym Estuary) and Kingsand/Cawsand to guide maintenance of defences and develop a programme of works along these frontages to ensure that they continue to provide adequate defence. | Defra/ Environment Agency | Plymouth City Council / Cornwall Council | 2011 | These should be developed in advance of the next SMP review in order to provide improved information to future policy decisions. Ensure information on defences is included in future updates of the NFCDD. Refer to SMP wide Action Plan item SDAD.ALL.6.1. |
| | SDAD.PSA15.6.2 | 6c27 to 6c45 | Ensure that roles and responsibilities for management and maintenance of Plymouth Sound Breakwater is agreed with all relevant organisations to provide basis for future management decisions to be developed for adjacent shorelines. | n/a | Environment Agency | 2015 | This should be undertaken in combination with Action Plan item SDAD.PSA15.1.1. |
| 7. Communication | SDAD.PSA15.7.1 | 6c27 to 6c45 | Undertake consultation with key stakeholders and general public during study/plan development and whenever appropriate to ensure an acceptable approach is developed. | Defra/ Environment Agency | Environment Agency / Plymouth City Council / Cornwall Council | ongoing | This item is to be undertaken in combination with Action Plan items SDAD.PSA15.2.1 and SDAD.PSA15.6.1. |
| 8. Planning | - | - | - | - | - | - | - |

| Action Type | Action Reference | Policy Unit | Action Description | Potential source for funding (subject to approval) | Responsibility (lead partner) | When by (subject to funding) | Relative importance and links with other actions |
|---|------------------|--------------------------|--|--|---|------------------------------|---|
| 9. Contingency Planning & Emergency Response | - | - | - | - | - | - | - |
| 10. Adaptation / Resilience | SDAD.PSA15.10.1 | 6c27 to 6c45 | Engage with other organisations and general public to inform them of the potential future risks of flood and coastal erosion as a result of SMP policies and work with these to develop plans for adapting to the changing risk. | n/a | Environment Agency | ongoing | Refer also to SMP wide Action Plan items SDAD.ALL.7.1 and SDAD.ALL.10.1. |
| 11. Early Warning | - | - | - | - | - | - | - |
| 12. Habitat Creation | SDAD.PSA15.12.1 | 6c27 to 6c45 | Quantify habitat losses and gains, and identify and secure sites for compensatory intertidal habitat losses within the Plymouth Sound and Estuaries SAC. | Defra/ Environment Agency | Environment Agency | ongoing | Refer also to Action Plan item SDAD.ALL.12.1. |
| 13. Funding | SDAD.PSA15.13.1 | 6c28 to 6c40, 6c42, 6c44 | As part of Asset Management Plan, investigate opportunities for co-funding future defence works with other organisations/private defence owners to provide the maximum possible benefit from such works to the area. | n/a | Environment Agency / Plymouth City Council / Cornwall Council | 2020 | This should be considered during the development of the Asset Management Plans in Action Plan items SDAD.PSA15.2.1 and SDAD.PSA15.6.1 to ensure that all possible options are considered. |
| 14. SMP Management and Monitoring | - | - | - | - | - | - | - |

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