

Action Ref (nos are not rankings)	Action	Reason	Scheduling & Dependencies	Importance	Action Output	Lead Authority	Key Partners	Location / Policy Unit	Target Start Date	Target End Date	Estimated Cost £	confidence level (high/med/low)	Actual Start Date	Actual End Date	Actual Cost £	MTP entry (yes/no/not applicable)	MTP ref once on MTP sanction list	If no MTP entry then alternative funding source	Link to NI189 (e.g. LAs which have agreed with EA a contribution to this action)
Urgent Actions																			
1	Critical review of the proposed actions within this plan	Action Plan needs to ensure the most critical work continues to be funded at the right time. Reinforce the actions that are directed toward spatial and emergency planning professionals to ensure that communities fully recognise the risks from the sea (both now and in the future) and implement appropriate risk management measures. Implementation of emergency plans are particularly important if funding constraints potentially increases risk (flood, coastal and erosion) as a result of delayed schemes.	Urgent. Informing coastal management planning, Medium Term Plan, schemes and decisions (timings and inter-dependencies)	Very High	Revised Action Plan	Client Steering Group	All CSG members	Solent-wide	2010	2011	EA and LA internal budgets	low	to be confirmed	to be confirmed	to be confirmed	n/a	n/a	n/a	
2	Investigate mitigation measures, required arising from flood risk management works, for maintaining function of Solent-wide network of high tide roost sites.	Provision of habitat and function mitigation measures. Monitoring of inter-tidal and coastal grazing marsh areas and high tide roost sites. Outcomes will need to be directly linked to FCERMS and the Regional Habitat Creation Programme.	Urgent. Informing coastal management planning, schemes and decisions	High	Reports, GIS & Partnership Working	Relevant LA to be advised by NE	Environment Agency, Local Authorities, Planning Authorities, Natural England & High	Solent-wide	2011	2013	120,000	low	to be confirmed	to be confirmed	to be confirmed	Yes	to be confirmed	n/a	
3	From a flood risk management works perspective, undertake further studies to identify and understand the location, features and function of the Solent-wide network of high tide roost sites (as far as it is identified) and the likely consequences on the ability of the network to continue to function if one or more sites were to be damaged or lost (through managed or unmanaged realignment) linked to flood risk management works .	Confirm future management of sites where opportunities for managed realignment have been identified. Clarify and further promote options to landowners such as High Level Stewardship Scheme. There is also the need for monitoring of inter-tidal and coastal grazing marsh areas and high tide roost sites, to improve understanding of the sites in the network and to inform understanding of the features and function of these habitats and ensure that the intertidal development trends are consistent with assumptions made in the SMP. The study and outcomes will need to be directly linked to FCERMS and outcomes informing the Regional Habitat Creation Programme.	Urgent. Informing coastal management planning, FCERMS, schemes and decisions	High	Reports, GIS & Partnership Working	to be confirmed (New Forest DC?), advised by NE	Environment Agency, Local Authorities, Planning Authorities, Natural England & High Level Stewardship Team, Regional Habitat Creation Programme Team	Specific locations within the Solent yet to be defined	2011	to be confirmed	120,000	low	to be confirmed	to be confirmed	to be confirmed	Yes	to be confirmed	n/a	
4	Completion of Itchen to Hamble Coastal Defence Strategy following public consultation. Determine policy and management approach for frontage.	Currently out to public consultation. Completion of CDS. Development of subsequent studies and schemes	Urgent. Informing coastal management planning, schemes and decisions	High	CDS	Southampton City Council	Eastleigh Borough Council, Fareham Borough Council, Environment Agency, Hampshire County Council	Itchen to Hamble (5C01 to 5C11)	Dec-05	Apr-11	120,000	high	in progress	to be confirmed	to be confirmed	Yes	SOS005E/004A/16 AA	n/a	SCC have agreed with the EA an action to have the CDS submitted to NRG for approval by the end of this financial year (2010/2011).
5	Completion of Portchester to Emsworth Coastal Defence Strategy. Determine policy and management approach for frontage.	Completion of CDS. Specifically with regard to Farlington Marshes, determine the best way forward for delivering the assessment of the strategic importance of the freshwater habitat to the Solent Estuary; the recreational value of the site to Portsmouth City, local and national visitors; and flood storage issues. It is expected that specific Schemes will be identified such as Farlington Flood Control, Portchester to Paulsgrove Defences	Urgent. Informing coastal management planning, schemes and decisions	High	CDS, Reports, GIS & Partnership Working	Environment Agency	Havant, Portsmouth & Gosport Coastal Partnership, Hampshire Wildlife Trust, Natural England	Portchester to Emsworth (5A16 to 5A21)	Jun-05	Dec-10	to be confirmed	high	in progress	Jun-05	Dec 2010 (to be confirmed)	Yes	SOS005E/005A/00 0A	n/a	
Actions																			
Monitoring Programme																			
6	Continuation of Strategic Regional Shoreline Monitoring Programme. National Programme commences in 2012 and will integrate regional programmes	Inform Planning Process (Coastal Change Management Areas), NCEM, FCERMS, Schemes, Post-project Appraisal and SMP reviews, etc.	Ongoing. Informing coastal management planning, schemes and decisions	High	Monitoring Programme	NFDC/CCO	Southern Coastal Group and others	Solent-wide	continuation (funding renewal 2012)	renewal every 5 years	947,000 (for 2011/12) for SE programme. (Phase 1 of National Monitoring 35M for 5 years of which 12.3M for SE region)	high	continuation (funding renewal 2012)	to be confirmed	renewal every 5 years	Yes	SOO004C/000A/03 9A	n/a	
Flood and Coastal Erosion Risk Management Strategies																			
7	Development of a flood and coastal erosion risk management strategy study for Chichester Harbour, between East Head and Emsworth.	Comply with FCERMS guidance but include such items as more detailed economic, environment and social-economic assessments; identify and consider the tidal, fluvial, storm water and groundwater flooding issues; integrate provision/rerouting of coastal access in defence management; continue to build and improve relationships with landowners; identify sources of funding; clarify coastal planning issues; take account of the outcomes of the other Solent-wide site-specific studies that have been identified in the Action Plan; and address the potential risks associated with withdrawal of maintenance or failure of privately owned defences and link with the RHCP accordingly. Apply the Gov't's sea level rise allowances and guidance arising from UKCP09 or subsequent studies. It is expected that specific Schemes will be identified. Improvements and maintenance of all existing flood defences would cost an estimated £230M over the next 100 years, however, the vast majority of these defences are either owned/maintained by private owners or MOD within this FCERMS study area.	To be informed by studies listed as urgent actions and other studies e.g. that investigate funding sources, identify and assess flood and erosion risk implications and clarify coastal planning issues associated with failure of non-maintenance of defences.	High	CDS	Environment Agency	Chichester District Council, Chichester Harbour Conservancy, West Sussex County Council, Natural England, Landowners	Chichester Harbour between Emsworth and East Head	Jun-10	Aug-12	100,000	high	Jun-10	to be confirmed	£100K	Yes	SOS 005E/017A/000A	n/a	
8	Development of a flood and coastal erosion risk management strategy study for Hayling Island.	Comply with FCERMS guidance but include such items as more detailed economic, environment and social-economic assessments; identify and consider the tidal, fluvial, storm water and groundwater flooding issues, continue to build and improve relationships with landowners; integrate provision/rerouting of coastal access in defence management; consideration potential opportunities for Regulated Tidal exchange and sluice gate modifications at Stoke and West Northney; include ebb tidal delta morphology study to improve understanding of the implications of loss of the nearshore banks on Hayling Island shoreline; identify sources of funding; clarify coastal planning issues; address the potential risks associated with withdrawal of maintenance or failure of privately owned defences and link with the RHCP accordingly; and take account of the outcomes of the other Solent-wide site-specific studies that have been identified in the Action Plan. Apply the Gov't's sea level rise allowances and guidance arising from UKCP09 or subsequent studies. It is expected that specific Schemes will be identified such as Eastoke	To be informed by studies listed as urgent actions and other studies e.g. that investigate funding sources, identify and assess flood and erosion risk implications and clarify coastal planning issues associated with failure of non-maintenance of defences.	High	CDS	Environment Agency	Havant, Portsmouth & Gosport Coastal Partnership, Chichester Harbour Conservancy, Hampshire County Council, Natural England, Landowners	Hayling Island	Dec-10	Apr-12	350,000	high	2011?	to be confirmed	£350K	Yes	to be confirmed	n/a	

Regional Studies																			
22	Commission region-wide wave climate risk studies to identify impacts of bimodal wave period conditions on design risk of all structures and beach systems and assess overtopping and breach potential based on uncertainties identified in SMP2 and SCOPAC studies, in partnership with neighbouring SMPs	inform future FCERMS, Scheme delivery and reviews of North Solent, IOW, Hurst to Durlston, Durlston to Rame Head, Beachy Head to Selsey Bill SMPs, etc.	informing coastal management planning, schemes and decisions	High	Reports & GIS	New Forest DC	Southern Coastal Group	Region-wide	2011/12	2013/14	250,000	high	to be confirmed	to be confirmed	to be confirmed	Yes	to be confirmed	n/a	
23	Commission region-wide sediment transport studies to fill gaps and uncertainties identified through coastal processes review and SMP development, in partnership with neighbouring SMPs		informing coastal management planning, schemes and decisions	High	Reports & GIS	New Forest DC	Southern Coastal Group	Region-wide	2012/13	2014/15	150,000	high	to be confirmed	to be confirmed	to be confirmed	Yes	to be confirmed	n/a	
24	Improve region-wide historical coastal evolution studies to identify impacts of coastal change based on aerial surveys in partnership with neighbouring SMPs	inform Planning Process (Coastal Change Management Areas), future FCERMS, Scheme delivery, sustainable environmental and amenity benefits and review of North Solent, IOW, Hurst to Durlston, Durlston to Rame Head, Beachy Head to Selsey Bill SMPs, etc.	informing coastal management planning, schemes and decisions	Medium	Reports, GIS & Partnership Working	New Forest DC	Southern Coastal Group	Region-wide	2014/15	2016/17	100,000	high	to be confirmed	to be confirmed	to be confirmed	Yes	to be confirmed	n/a	
25	Identify sources and investigate potential opportunities for making beneficial use of dredged material for beach replenishment and saltmarsh stabilisation to inform environmental assessments and studies and address public concerns	progress Schemes	informing coastal management planning, schemes and decisions	Medium	Reports, GIS & Partnership Working	to be confirmed. (New Forest DC?)	Southern Coastal Group	Region-wide	2015/16	2016/17	80,000	low	to be confirmed	to be confirmed	to be confirmed	Yes	to be confirmed	n/a	
26	Undertake a study on the long-term shoreline evolution of Hamble Point and Hamble River mouth to address the economic, environmental and social implications and to inform flood defence management options in the long-term	inform Planning Process (Coastal Change Management Areas), FCERMS, Scheme delivery, sustainable environmental and amenity benefits and SMP reviews, etc.	informing coastal management planning, schemes and decisions	Medium	Reports & GIS	Environment Agency	Local Authorities & Planning Authorities, Natural England	River Hamble	2015/16	2016/17	60,000	low	to be confirmed	to be confirmed	to be confirmed	Yes	to be confirmed	?	
Contaminated Land / Landfill sites / Pollution Risk																			
27	Disseminate EA/ CIRIA review of contaminated land sites and apply to the North Solent region.	Review may inform management of sites and line of defence through site specific schemes of FCERMS. (Depending on content and scope of review of CIRIA report with regard to current and former landfill sites, there may be a need to explore funding sources for detailed investigations to determine potential contamination risks, groundwater saline intrusion risks and long-term management and relocation of former and current landfill sites in flood and erosion risk zones).	informing coastal management planning, schemes and decisions	High	Reports, GIS	Environment Agency for dissemination of CIRIA report	Environment Agency, Local Authorities, Planning Authorities, County Councils, Natural England	various locations within Solent area	to be confirmed	to be confirmed	40,000	low	to be confirmed	to be confirmed	to be confirmed	not if County Councils leading. Also not FCDGIA	?	n/a	
Beach Management Plans																			
28	Investigate need for Beach Management Plans and beach recycling operations	scheme delivery, sustainable management, environmental and amenity benefits	ongoing	High	Beach Management	Southern Coastal Group to coordinate LA requirements		various locations within Solent area	ongoing		90,000	low	ongoing	to be confirmed	to be confirmed	no	n/a	from each individual organisation's internal budgets	
29	Produce the plans for Beach Management Plan sites where necessary, following outcomes from Action 28		Dependent on Action X	High	Beach Management	the relevant Operating Authority		various locations within Solent area	to be confirmed	to be confirmed	to be confirmed	low	to be confirmed	to be confirmed	to be confirmed	yes but in future years	to be confirmed	n/a	
30	Continue to implement current Beach Management Plans at sites such as Hurst Spit, Lee-on-the-Solent, Eastoke, and other sites as identified in Action 28		Dependent on Action X	High	Beach Management	the relevant Operating Authority		various locations within Solent area	ongoing		various	low	to be confirmed	to be confirmed	various	Yes (various Las included BMPs in MTP)	Yes (various Las included BMPs in MTP)	n/a	
Regional Coastal Management																			
31	Prepare an Engagement Plan for ongoing consultations and discussions with landowners, MOD, general public	see advisory actions	Informing FCERMS and schemes	High	Engagement Plan	Environment Agency	All CSG members	Solent-wide	2011	ongoing updating	25,000	low	ongoing updating	to be confirmed	to be confirmed	No	n/a	Southern Coastal Group	
32	Update the EA database of final SMP policies, and CSG member records and policy documents	informing SMP reviews	Ongoing. Informing coastal management planning, schemes and decisions	High	Reports & Partnership Working	Environment Agency	All CSG members	Solent-wide	ongoing	ongoing updating	EA budget	low	ongoing	to be confirmed		No	n/a	from each individual organisation's	
Advisory Actions																			
33	Report to the CSG and EMG as sub-groups of the Southern Coastal Group on the implementation of actions and update Action Plan and database. (NFDC to maintain SMP website)	Continued monitoring, data and information exchange, lessons learnt, etc	ongoing	High	Reports & Partnership Working	Southern Coastal Group	All CSG members	Solent-wide	ongoing		n/a	n/a	ongoing	n/a		No	n/a	from each individual organisation's internal budgets	
34	Include actions identified in Action Plan in the appropriate MTP submissions by CSG member authorities	Future funding and resource planning	ongoing	High	Partnership Working	Southern Coastal Group	All CSG members to include relevant actions on their MTP. EA to audit process	Solent-wide	ongoing		n/a	n/a	ongoing	n/a		No	n/a	from each individual organisation's internal budgets	
35	Officers and Elected Members work with the Environment Agency to identify, secure and develop sites for habitat compensation and mitigation that contribute to the Regional Habitat Creation Programme	Scheme delivery, sustainable environmental and amenity benefits	ongoing	High	Partnership Working	Southern Coastal Group	All CSG members	Solent-wide	ongoing		n/a	n/a	ongoing	n/a		No	n/a	from each individual organisation's internal budgets	
36	Maintain a stakeholder engagement database and continue consultation with key stakeholders and general public in the period up to SMP3.	see Action 23. Continue to raise awareness of coastal change, sea level rise and implications of climate change, current and predicted flood and erosion risk and issues and future management of defences with Elected Members the public and stakeholders. Inform them of progress of action plan.	ongoing	High	Consultation	All CSG members to identify and maintain database of stakeholders. Southern Coastal Group to collate stakeholder databases		Solent-wide	ongoing		n/a	n/a	ongoing	n/a		No	n/a	from each individual organisation's internal budgets	
37	Consultation with MOD regarding their landholdings and defences	see Action 23. Ongoing and future consultations with the MOD with regard to maintenance and management of their defences. Recommend development of exit strategy if defences are either not to be maintained or if/when there may be a change in ownership of site; and continue to explore opportunities for realignment of defences for environmental enhancement and compensation habitat measures.	ongoing	High	Partnership Working	All CSG members		various locations within Solent area	ongoing		n/a	n/a	ongoing	n/a		No	n/a	from each individual organisation's internal budgets	

38	Consultations with third parties with regard to privately owned and maintained defences	see Action 23. Ongoing and future consultations with the landowners / associations / groups with regard to maintenance and management of their defences and protection of property. Database of landowner's intentions for future management of defences and take up of HLS / RHCP opportunities.	ongoing	High	Partnership Working	All CSG members	Solent-wide	ongoing	n/a	n/a	ongoing	n/a	No	n/a	from each individual organisation's internal budgets		
39	Consultations with development and planning colleagues e.g. defining Coastal Change Management Areas, inform national shoreline management policy and clarifying legal and planning coastal issues such as role, options, liabilities and/or obligations of the Coastal Protection Authority, Planning Authority and private defence owners	see Action 23. Encourage planning authorities, development and emergency response plans to refer to and take account of SMP policies, flood and erosion risk areas when identifying Coastal Change Management Areas, and consider preparations for extreme events that exceed design standards. Investigate with planners coastal planning issues e.g. potential liabilities if defences fail or not maintained, contributions to the Regional Habitat Creation Programme for additional habitat losses associated with improvement to or additional defences, etc.	ongoing	High	Consultation & Partnership Working	All CSG members / Planning Authorities	Solent-wide	ongoing	n/a	n/a	ongoing	n/a	No	n/a	from each individual organisation's internal budgets		
40	Integration of subsequent FCERMS/other studies with Catchment Flood Management Plans	Identification and delivery of potential habitat creation/mitigation/upstream migration, clarification and improvements to tidal and fluvial flood risk mapping e. River Wallington	ongoing	High	Reports & GIS	All CSG members	CDS Project team / Environment Agency & Local Authorities & Planning Authorities	Solent-wide	ongoing	n/a	n/a	ongoing	n/a	No	n/a	from each individual organisation's internal budgets	
41	Continue to update and improve flood risk maps and inundation modelling to provide improved flood warning service and contingency planning and aid definition of Coastal Change Management Areas. These measures will identify opportunities to support other approaches for protecting coastal communities	Inform Planning Process, FCERMS, Schemes, consultation exercises and SMP reviews; define Coastal Change Management Areas.	ongoing	High	Mapping & Modelling	Environment Agency	Southern Coastal Group members	Solent-wide	ongoing	n/a	n/a	ongoing	n/a	No	n/a	from EA's internal budgets	
42	Ensure the National Coastal Erosion Risk Mapping is integrated with coastal and marine spatial planning, based on the latest available monitoring data and is readily available to coastal authorities, SMP reviews, CDS and other studies	inform Planning Process (Coastal Change Management Areas), FCERMS, Schemes, consultation exercises and SMP reviews	ongoing	High	GIS & Partnership Working	Environment Agency	Southern Coastal Group members	Solent-wide	ongoing	n/a	n/a	ongoing	n/a	No	n/a	n/a	
43	Maintain a database of land and defence ownership details, defence type, condition and residual life, defence management intentions and reflect any changes arising from continued discussions with land and defence owners. Seek ownership and maintenance details for all defences when undertaking defence asset inspections in order to determine future work requirements and funding sources for maintenance and improvement works. Recommend the asset inspection and defence detail data included within EA operational mapping of defences	inform FCERMS, Scheme delivery and SMP reviews, etc.	ongoing	High	GIS & Partnership Working	Environment Agency & Local Authorities & Planning Authorities	Southern Coastal Group members	Solent-wide	ongoing	?	n/a	ongoing	?	No	n/a	from each individual organisation's internal budgets	
44	Disseminate Rapid Coastal Zone Assessment Survey (RCZSA) datasets for coastal and marine spatial planning and assessments and SMP3 review	inform Planning Process (Coastal Change Management Areas), FCERMS, Scheme delivery, sustainable environmental and amenity benefits and SMP reviews, etc.	ongoing	Medium	Reports & GIS	New Forest National Park Authority & English Heritage	Solent-wide	2011	to be confirmed	n/a	n/a	2011	to be confirmed	n/a	No	n/a	n/a
45	Continue and improve integration with tourism sector to develop sustainable management approaches for coastal communities	inform FCERMS, Schemes, consultation exercises and SMP reviews	ongoing	Medium	Reports & Partnership Working	All CSG members / Planning Authorities	Solent-wide	ongoing	n/a	n/a	ongoing	n/a	No	n/a	from each individual organisation's internal budgets		
46	Promote and encourage those at risk from flooding to sign up to Floodline Warnings Direct and prepare contingency measures and a Flood Plan	flood resilience and adaptive flood risk management	ongoing	Medium	Consultation & Education	Environment Agency & Local Authorities & Planning Authorities	Solent-wide	ongoing	n/a	n/a	ongoing	n/a	No	n/a	from each individual organisation's internal budgets		
47	Investigate accretion/erosion rates for intertidal habitat mapping and determining potential mitigation and compensation habitat creation when undertaking Appropriate Assessments at FCERMS and Scheme levels	Refine broad scale analysis in AA methodology which used a 3mm/yr accretion rate across Solent region (SDCP also developed 0mm and 6mm per yr scenarios). FCERMS / Scheme to identify the appropriate SDCP scenario for assessment.	ongoing	Medium	Reports & GIS	Environment Agency & Local Authorities & Planning Authorities	Solent-wide	ongoing	n/a	n/a	ongoing	n/a	No	n/a	from FCERMS / Scheme budgets		