

North Devon and Somerset Coastal Authorities Group

Hartland Point to Anchor Head SMP2

Policy Scenarios to Test - DRAFT FOR STAKEHOLDER FORUMS

NAI No Active Intervention
 HTL Hold The Line
 MR Managed Realignment
 ATL Advance The Line
 Blue values = CFMP Policy
 for 'B' and 'C', yellow boxes are where policy differs from 'A'

Date Updated: 12th January 2009

Scenario A Initial Starting Point for appraisal based on what could be an appropriate policy scenario on technical, economic, environmental and social grounds.

Scenario B Modification of Scenario A, assuming primary driver is a return to more natural situation.

Scenario C Modification of Scenario A, assuming primary driver is to protect most assets, so greater armouring of coast.

Related Process Unit	Possible Policy Unit		SMP1 Policy	Scenario A				Scenario B				Scenario C				
				0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	
Lundy Island	1	1	Landing Beach	Hold the Line	HTL	HTL	HTL	Defences at Landing Beach protect the only access from the shoreline to the properties on Lundy. Continued defence is needed to maintain this key link.								
	1	2	Rest of Lundy Island	Do Nothing	NAI	NAI	NAI									

Related Process Unit	Possible Policy Unit		SMP1 Policy	Scenario A				Scenario B				Scenario C					
				0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments		
Hartland Point to Westward Ho!	2	1	Hartland Point to Clovelly	Do Nothing	NAI	NAI	NAI	North Devon CFMP (Policy Unit 1A) covers the small streams in this area. CFMP Policy = <i>No Active Intervention</i> though flood warning will be provided due to the sudden high energy nature of flood events that occur here (i.e. 'flash flooding' through steep valleys) such that risk to life is reduced.									
	2	2	Clovelly	Hold	HTL	HTL	HTL										
	2	3	Clovelly to Rock Nose	Do Nothing	NAI	NAI	NAI		Clovelly defended primarily by harbour structures that also provide defence function.								

Related Process Unit	Possible Policy Unit		SMP1 Policy	Scenario A				Scenario B				Scenario C				
				0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	
Westward Ho! to Saunton Down	3	1	Westward Ho!	Hold	HTL	HTL	HTL	CFMP Policy for Taw/Torridge Estuary (North Devon CFMP - Policy Unit 2) is <i>Take action to increase the frequency of flooding</i> . This is interpreted to = <i>Managed Realignment</i> in strategic locations within the estuary.	HTL	HTL	HTL		HTL	HTL	HTL	
	3	2	Pebble Ridge	Retreat	MR	MR	MR		NAI	NAI	NAI		HTL	HTL	HTL	
	3	3	Skern Saltmarsh	Retreat	MR	MR	MR		NAI	NAI	NAI		HTL	HTL	HTL	
	3	4	West of Appledore	Retreat	MR	MR	MR		MR	MR	MR		HTL	HTL	HTL	
	3	5	Appledore	Hold	HTL	HTL	HTL		HTL	HTL	HTL		HTL	HTL	HTL	
	3	6	Appledore to Northam	Do Nothing	HTL	HTL	HTL		MR	NAI	NAI		HTL	HTL	HTL	
	3	7	Northam to Bideford (south)	Hold	HTL	HTL	HTL		HTL	HTL	HTL		HTL	HTL	HTL	
	3	8	Bideford (south) to Weare Gifford (Torridge West)	N/A	HTL	HTL	HTL		NAI	NAI	NAI		HTL	HTL	HTL	
	3	9	Weare Gifford to East-the-Water (Torridge East)	N/A	HTL	HTL	HTL		NAI	NAI	NAI		HTL	HTL	HTL	
	3	10	East-the-Water to Torridge Bridge (A39)	N/A	HTL	HTL	HTL		HTL	HTL	HTL		HTL	HTL	HTL	
	3	11	Torridge Bridge to Instow	Hold	HTL	HTL	HTL	HTL	HTL	HTL		HTL	HTL	HTL		
	3	12	Instow	Hold	HTL	HTL	HTL	HTL	HTL	HTL		HTL	HTL	HTL		
	3	13	Instow to Yelland	Hold	HTL	HTL	HTL	MR	MR	MR		HTL	HTL	HTL		
	3	14	Home Farm Marsh (Yelland to Fremington (east))	Retreat	HTL	HTL	HTL	MR	MR	MR		HTL	HTL	HTL		
	3	15	Fremington to Penhill Point	Do Nothing	HTL	HTL	HTL	NAI	NAI	NAI		HTL	HTL	HTL		
	3	16	Penhill Point to A361 Road Bridge (Bickington)	N/A	HTL	HTL	HTL	HTL	HTL	HTL		HTL	HTL	HTL		
	3	17	Upper Torridge Estuary (A361 to Tidal Limit near Bishops Tawton)	N/A	HTL	HTL	HTL	NAI	NAI	NAI		HTL	HTL	HTL		
	3	18	A361 Road Bridge to West Ashford (Barnstaple)	N/A	HTL	HTL	HTL	HTL	HTL	HTL		HTL	HTL	HTL		
	3	19	West Ashford to River Caen	Hold	MR	MR	MR	MR	MR	MR		MR	MR	MR		
	3	20	River Caen to the White House	Hold / Observe & Monitor	MR	MR	MR	MR	MR	MR		MR	MR	MR		
	3	21	Crow Point	Observe & Monitor	MR	MR	MR	MR	MR	MR		MR	MR	MR		
	3	22	Saunton Sands	Do Nothing	NAI	NAI	NAI	NAI	NAI	NAI		NAI	NAI	NAI		

Assumes that allowing erosion of the old landfill site at Northam Burrows is an unacceptable pollution risk and so defence is required to prevent this occurring.

Crow Point formed as a result of human influence and is an artificial feature. NAI would allow it to continue to evolve.
 NAI at Northam Burrows would not involve action to repair breaches in the pebble ridge, though it is likely that a secondary defence would be required to protect Westward Ho! even under this scenario.
 Assumes within the estuary an alternative interpretation of how the CFMP policies are transposed into SMP2.

3	23	Saunton Down	Do Nothing	NAI	NAI	NAI	NAI	NAI	NAI	NAI	NAI	NAI	NAI	NAI	NAI	
Related Process Unit	Possible Policy Unit		SMP1 Policy	Scenario A				Scenario B				Scenario C				
				0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	
Saunton Down to Morte Point	4	1	Croyde Sands	Observe & Monitor	NAI	NAI	NAI	North Devon CFMP (Policy Unit 1B) covers the small streams in this area. CFMP Policy = <i>No Active Intervention</i> though flood warning will be provided such that risk to life is reduced.	NAI	NAI	NAI	Assumes that slow rate of recession is such that cliff top assets can be relocated without need to intervene in short term whilst such measures are developed.	NAI	NAI	NAI	Assumes it is feasible to protect the holiday park.
	4	2	Middleborough Hill	Hold	MR	NAI	NAI		NAI	HTL	HTL		HTL			
	4	3	Middleborough Hill to Baggly Point	Do Nothing	NAI	NAI	NAI		NAI	NAI	NAI		NAI			
Saunton Down to Morte Point	5	1	Baggy Point to Napps Cliff (Putsborough)	Do Nothing	NAI	NAI	NAI	North Devon CFMP (Policy Unit 1B) covers the small streams in this area. CFMP Policy = <i>No Active Intervention</i> though flood warning will be provided such that risk to life is reduced.	NAI	NAI	NAI	Assumes MR is undertaken earlier in order to conserve more beach material.				
	5	2	Putsborough Sands and Vention	Hold	HTL	HTL	MR		HTL	MR	MR					
	5	3	Vention to Woolacombe Beach	Do Nothing	NAI	NAI	NAI		NAI	NAI	NAI					
	5	4	Woolacombe Beach	Observe & Monitor	NAI	NAI	NAI		NAI	NAI	NAI					
	5	5	Woolacombe to Morte Point	Do Nothing	NAI	NAI	NAI		NAI	NAI	NAI					
Morte Point to Minehead	6	1	Morte Point to Ilfracombe (West)	Do Nothing (Hold at Lee)	NAI	NAI	NAI	North Devon CFMP (Policy Unit 1B) covers the small streams from Morte Point to Ilfracombe. CFMP Policy here = <i>No Active Intervention</i> though flood warning will be provided such that risk to life is reduced.				Test HTL at a number of locations where there are very short lengths of defence such as Lee, Hele Bay, Hillsborough and Watermouth.	HTL	HTL	HTL	
	6	2	Ilfracombe	Hold	HTL	HTL	HTL		HTL	HTL	HTL					
	6	3	Ilfracombe (East) to Combe Martin	Do Nothing (Hold at Hillsborough, Hele Bay and Watermouth Slipway)	NAI	NAI	NAI		NAI	NAI	NAI		HTL	HTL	HTL	
	6	4	Combe Martin	Hold	HTL	HTL	HTL		HTL	HTL	HTL		HTL	HTL	HTL	
	6	5	Combe Martin to Lynmouth	Do Nothing	NAI	NAI	NAI		NAI	NAI	NAI		NAI	NAI	NAI	
	6	6	Lynmouth	Hold	HTL	HTL	HTL		HTL	HTL	HTL		HTL	HTL	HTL	
	6	7	Lynmouth to Foreland Point	Do Nothing	NAI	NAI	NAI		NAI	NAI	NAI		NAI	NAI	NAI	

Related Process Unit	Possible Policy Unit		SMP1 Policy	Scenario A				Scenario B				Scenario C			
				0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments

Morte Point to Minehead	7	1	Foreland Point to Gore Point	Do Nothing	NAI	NAI	NAI	West Somerset CFMP (Policy Unit 1) covers the small streams in this area. CFMP Policy = <i>No Active Intervention</i> though flood warning will be provided such that risk to life is reduced.								
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Related Process Unit	Possible Policy Unit			SMP1 Policy	Scenario A				Scenario B				Scenario C					
					0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments		
Morte Point to Minehead	8	1	Gore Point to Porlock Weir	Observe & Monitor	NAI	NAI	NAI	West Somerset CFMP (Policy Unit 4) covers this area. CFMP Policy = <i>Take further action to sustain current scale of flood risk into the future.</i> MR is the current policy of the National Trust along its section of Porlock Bay. MR of Porlock Weir may be necessary in the longer term as it becomes less feasible to retain defences here due to reduced beach levels.										
	8	2	Porlock Weir	Hold	HTL	HTL	MR											
	8	3	Porlock Weir to Hurlstone Point	Retreat	MR	MR	MR											

Related Process Unit	Possible Policy Unit			SMP1 Policy	Scenario A				Scenario B				Scenario C					
					0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments		
Morte Point to Minehead / Minehead to Hinkley Point	9	1	Hurlstone Point to Minehead (west)	Do Nothing	NAI	NAI	NAI	West Somerset CFMP (Policy Unit 7) covers the western end of this area. CFMP Policy = <i>No Active Intervention.</i> CFMP Policy for Minehead (Policy Unit 6) = <i>Take further action to reduce flood risk.</i> CFMP Policy for Minehead to Blue Anchor (Policy Units 4 and 5) = <i>Take further action to sustain current scale of flood risk.</i> MR for much of this section could be feasible as there are few assets at risk and MR could provide both habitat and a wider coastal area that allows both retention of beach and coastal defence function in the medium to long term.							NAI	NAI	NAI	Assumes there is a driver to protect tourism assets in-situ (e.g. Dunster)
	9	2	Minehead	Hold	HTL	HTL	HTL							HTL	HTL	HTL		
	9	3	The Warren to Ker Moor	Observe & Monitor	MR	MR	MR								HTL	HTL	HTL	
	9	4	Blue Anchor	Hold	HTL	HTL	MR								HTL	HTL	HTL	

Related Process Unit	Possible Policy Unit			SMP1 Policy	Scenario A				Scenario B				Scenario C			
					0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments
Minehead to Hinkley Point	10	1	Blue Anchor to Watchet	Do Nothing	NAI	NAI	NAI	West Somerset CFMP Policy for the section between Blue Anchor and St Audries Bay (Policy Units 4 and 9) = <i>Take further action to sustain current scale of flood risk.</i> CFMP Policy for the section St Audries Bay to Lilstock (Policy Unit 11) = <i>No Active Intervention.</i> MR would involve relocating assets away from risk areas such as coastal erosion occurs in the longer term.	NAI	NAI	NAI	If erosion increases due to climate change then MR earlier than Scenario A may be appropriate.	NAI	NAI	NAI	Assumes there is justification to Hold the Line at these locations to retain infrastructure and to protect tourist assets in-situ (e.g Doniford camp)
	10	2	Watchet	Hold	HTL	HTL	HTL		HTL	HTL	HTL					
	10	3	Watchet to east Helwell Bay	Observe & Monitor	HTL	HTL	MR		HTL	MR	MR					
	10	4	Helwell Bay to Lilstock	Observe & Monitor / Hold	NAI	NAI	NAI		NAI	NAI	NAI					
	10	9	Lilstock	Hold	HTL	HTL	NAI		NAI	NAI	NAI					
	10	10	Lilstock to Hinkley Point	Do Nothing	NAI	NAI	NAI		NAI	NAI	NAI					

Related Process Unit	Possible Policy Unit			SMP1 Policy	Scenario A				Scenario B				Scenario C			
					0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments
	11	1	Hinkley Point	Hold	HTL	HTL	HTL		HTL	HTL	HTL		HTL	HTL	HTL	

Hinkley Point to Brean Down	11	2	Hinkley Point to Stolford	Hold	MR	MR	MR	Both the Parrett CFMP and North & Mid Somerset CFMP provide policies that cover the this section, all of which are interpreted as Hold the Line .	MR	MR	MR	MR	MR	MR	MR	
	11	3	Stolford to Fenning Island	Observe & Monitor	HTL	HTL	MR	Comwich to Bridgwater (Parrett CFMP Policy Unit 10) has a policy of Continue with existing or alternative actions to manage flood risk at the current level of flooding (accepting that flood risk will increase over time) .	MR	MR	MR	HTL	HTL	HTL	HTL	HTL
	11	4	Fenning Island to Comwich	Observe & Monitor	HTL	HTL	MR		MR	MR	MR	HTL	HTL	HTL	HTL	HTL
	11	5	Comwich	Hold	HTL	HTL	HTL	Bridgwater (Parrett CFMP Policy Unit 9) has a policy of Take action to ensure no increase in flood risk over time . This allows upgrade of existing defences to sustain the current level of flood risk.	HTL	HTL	HTL	HTL	HTL	HTL	HTL	HTL
	11	6	Comwich to Bridgwater (Parrett west)	N/A	HTL	HTL	HTL		MR	MR	MR	HTL	HTL	HTL	HTL	HTL
	11	7	Bridgwater (Upper Parrett Estuary)	N/A	HTL	HTL	HTL	The area from Bridgwater to the River Brue is in part covered by the Huntspill CFMP policy (North & Mid Somerset CFMP Policy Unit 10) which is Continue with existing or alternative actions to manage flood risk at the current level (accepting that flood risk will increase over time) . This policy unit also covers North of Brean village to Brean Down.	HTL	HTL	HTL	HTL	HTL	HTL	HTL	HTL
	11	8	Bridgwater (Dunball) to River Brue	Hold	HTL	HTL	HTL		MR	MR	MR	HTL	HTL	HTL	HTL	HTL
	11	9	River Brue to Burnham-on-Sea (North)/Berrow	Hold	HTL	HTL	HTL	Burnham to Brean Village (North & Mid Somerset CFMP Policy Unit 11) policy is Take further action to sustain current scale of flood risk into the future . This allows upgrade of existing defences but not extension of defences.	HTL	HTL	HTL	HTL	HTL	HTL	HTL	HTL
	11	10	Berrow Dunes	Observe & Monitor	NAI	NAI	NAI		NAI	NAI	NAI	NAI	NAI	NAI	NAI	NAI
	11	11	Brean Village	Hold	HTL	MR	MR		MR	MR	MR	HTL	HTL	HTL	HTL	HTL
	11	12	Brean Village to Brean Down	Hold	HTL	MR	MR	MR around Steart Peninsula is actively being investigated as a management option and it may be feasible to realign more of the site in the longer term, as continued defence of Steart village is likely to become less feasible in the longer term. Policies on the open coast and estuary shores need to be complimentary.	MR	MR	MR	HTL	HTL	HTL	HTL	HTL
	11	13	Brean Down (south side)	Do Nothing	NAI	NAI	NAI	A similar reasoning is applicable to Brean Village and Brean Down.	NAI	NAI	NAI	NAI	NAI	NAI	NAI	NAI

Assumes MR is undertaken earlier in places where appraised in Scenario A, and that there are areas within the Parrett where MR may be viable.

HTL for Fenning Island to Comwich as understood that there are plans to use Regulated Tidal Exchange in this area to create more freshwater habitat.

Related Process Unit	Possible Policy Unit	SMP1 Policy	Scenario A				Scenario B				Scenario C					
			0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments	0-20 year	20-50 year	50-100 year	Comments		
Brean Down to Anchor Head	12	1	Brean Down (north side) to Axe Estuary (west)	Do Nothing	NAI	NAI	NAI		NAI	NAI	NAI					
	12	2	Axe Estuary West Bank (mouth to near Diamond Farm)	Hold (locally Retreat)	HTL	HTL	HTL	The area from Brean Down to the River Axe is covered by North & Mid Somerset CFMP Policy Unit 10, which is Continue with existing or alternative actions to manage flood risk at the current level (accepting that flood risk will increase over time) .	MR	MR	MR					
	12	3	Axe Estuary East Bank (near Diamond Farm to Uphill)	Hold (locally Retreat)	HTL	HTL	HTL	Uphill to Weston-super-Mare is covered by North & Mid Somerset CFMP Policy Unit 8, which is Take further action to reduce flood risk, both now and in the future . Both CFMP policies are interpreted as Hold the Line .	MR	MR	MR	Assumes that in order to conserve more beach material as sea levels rise, it may be more appropriate to MR Uphill to WSM earlier. NB: any policy along the Axe Estuary needs to compliment the open coast policy, especially between Brean Village and Brean Down.				
	12	4	Axe Estuary East Bank (Uphill to mouth)	Hold (locally Retreat)	HTL	HTL	HTL	MR along the dune section from Uphill to WSM in the longer term would allow natural evolution of the shore as sea levels rise and would be more likely to conserve a greater amount of beach material in this area.	MR	MR	MR					

