

C.3 EROSION MAPPING



C.3.1 INTRODUCTION

In order to determine the shoreline erosion risk for the Poole & Christchurch Bays Shoreline Management Plan frontage, an average annual recession rate was calculated assuming that no defences were present. This was based on best available data. The average annual recession rate assuming no defences was applied to two scenarios:

Under the 'No Active Intervention' (NAI) policy scenario, there is no expenditure on maintaining or improving existing coastal and flood defences; therefore defences will fail at a time dependent upon their residual life and the condition of the fronting beaches and inter-tidal areas.

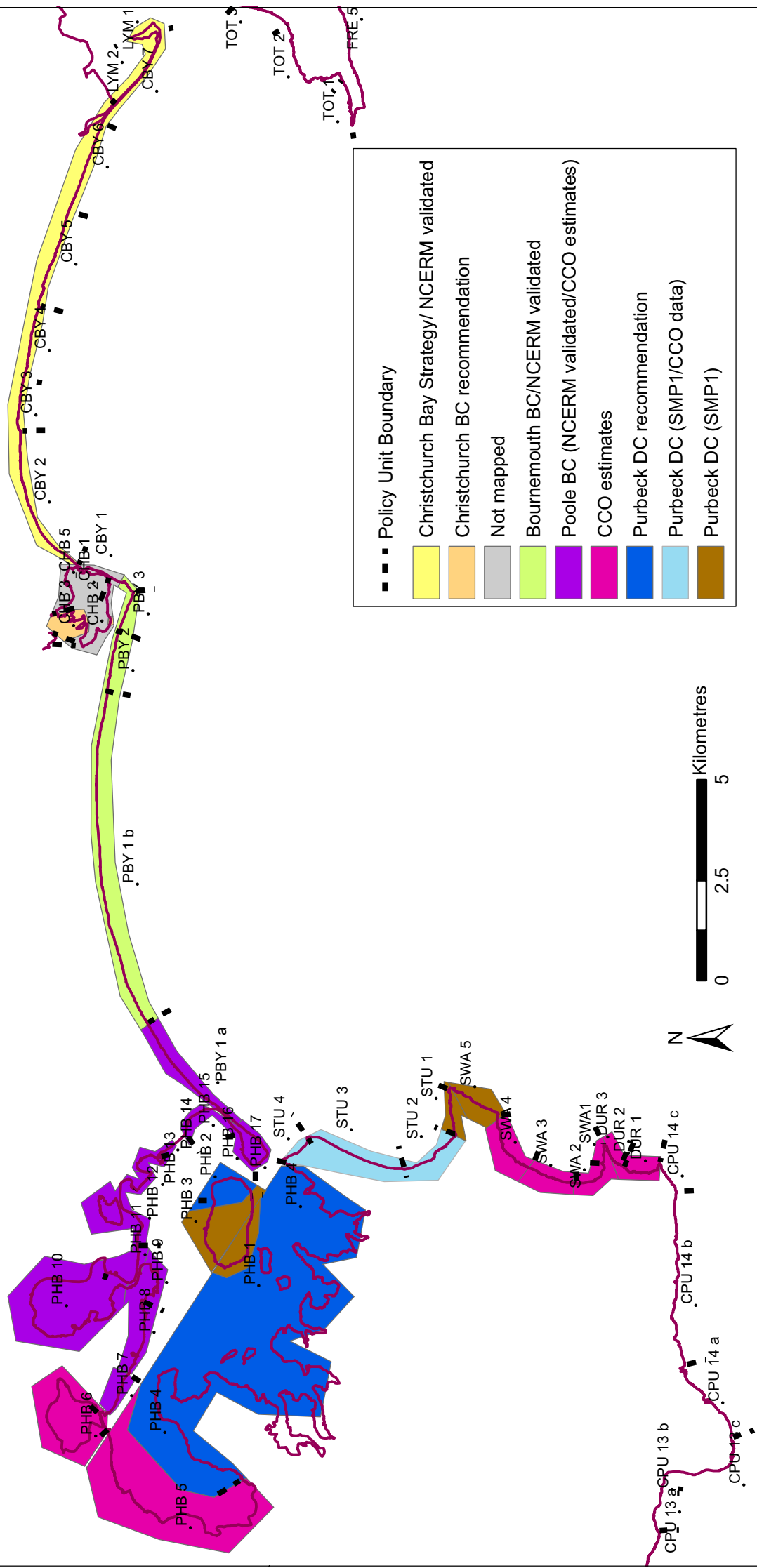
Under the 'With Present Management' (WPM) policy scenario, all existing management practices are continued and defences are maintained to provide a similar level of protection over the next 100 years to that provided at present.

C.3.2 DATA COLLECTION

The following data were collected to determine the shoreline erosion risk:

- **Average erosion rates** (see Map 1 for data used)
- *Christchurch Bay* erosion mapping was obtained from New Forest District Council (NFDC) Christchurch Bay Strategy Study and correlates with the validated National Coastal Erosion Risk Mapping (NCERM) information. Two extra maps are provided for CBY 3 and CBY 4 and show upper erosion rates for these landslip areas (termed "high" on the maps).
- *Christchurch Harbour* is identified as a non-eroding frontage in the NCERM database. Following the first draft of erosion maps, the high banks surrounding the golf course in Area CHB3 and a small area in CHB2 were mapped for the NAI and WPM scenarios, using recommended rates provided by Christchurch Borough Council.
- *Poole Bay* erosion mapping rates were obtained from Bournemouth Borough Council. These rates are the same as the validated NCERM information.
- *Poole Harbour* erosion rates were based on those provided by Poole Borough Council, Purbeck District Council, Shoreline Management Plan (SMP) 1 and the Channel Coastal Observatory estimates.

- *Studland, Swanage and Dulston Bay* erosion rates were compiled from various data sources including Purbeck District Council recommendations, SMP1, the Poole Bay and Harbour Strategy Study (2004), Futurecoast and NCERM.
- **The erosion baseline** was obtained from Halcrow and is the NCERM baseline. This was refined for the Poole and Bournemouth frontage to provide a less sinuous erosion prediction around the Chines. The MHW line was used for Studland Spit to account for the expanse of beach in front of the dunes which provides protection.
- **The residual life information** was collated from the Local Authorities by the NFDC and from the Environment Agency by Royal Haskoning (see Annex 1). This data was worked into a shapefile by Royal Haskoning and supplied to the Channel Coastal Observatory. The same defence information is also part of the National Flood and Coastal Defence Database.
- **Address Point data** was obtained from the EA by the Channel Coastal Observatory (2008 dataset)
- **The EA 2008 (1:200 yr) tidal floodzone and 2102 tidal floodplain** were added to all erosion maps following agreement by the Client Steering Group.



C.3.3 ANALYSIS

Once the average annual recession rate was calculated, the shore parallel erosion baseline (i.e. cliff top, Mean High Water) was projected landwards for epochs 0-20, 20-50 and 50-100 years to form erosion zones. The recession rates are presented in Annex 1.

Under the NAI scenario, the average annual recession rates were only applied to the shoreline erosion baseline when the existing defences reached the end of their residual life or natural defences (e.g. saltmarshes, barrier beaches and small cusped features) were predicted to have eroded, thereby no longer providing protection to the mainland from wave attack. Where there were no defences or existing defences had reached the end of their residual life, the recession rates were applied from Year 1. Where existing defence residual life data showed a range (i.e. residual life value of 1-20), the mid point was taken as the onset of defence failure.

Under a WPM scenario, there was no erosion shown where coastal management was in operation (i.e. hard structures and soft engineering). Erosion was still shown under a WPM scenario for landslides protected at the toe, due to slumping processes in operation.

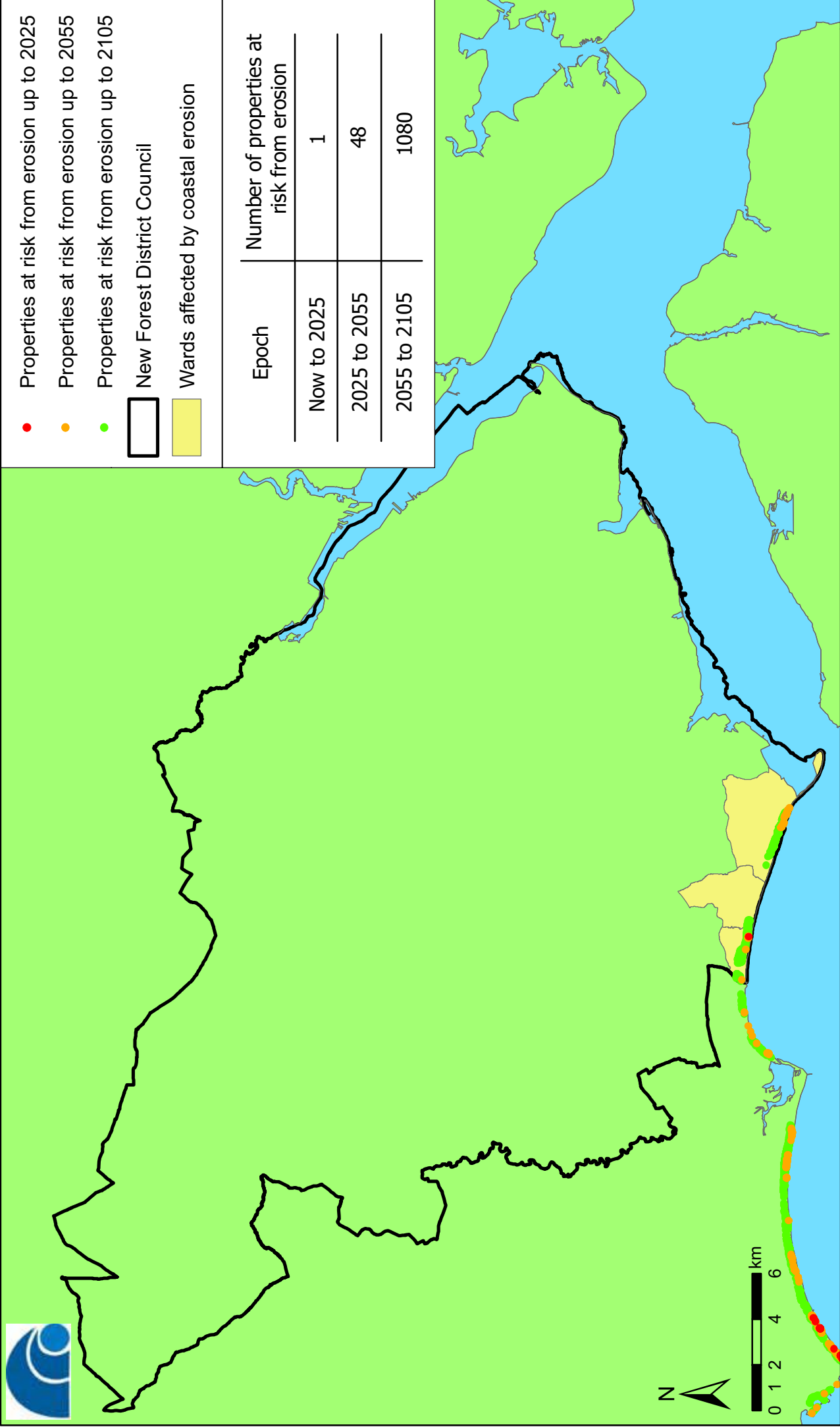
C.3.4 MAPS

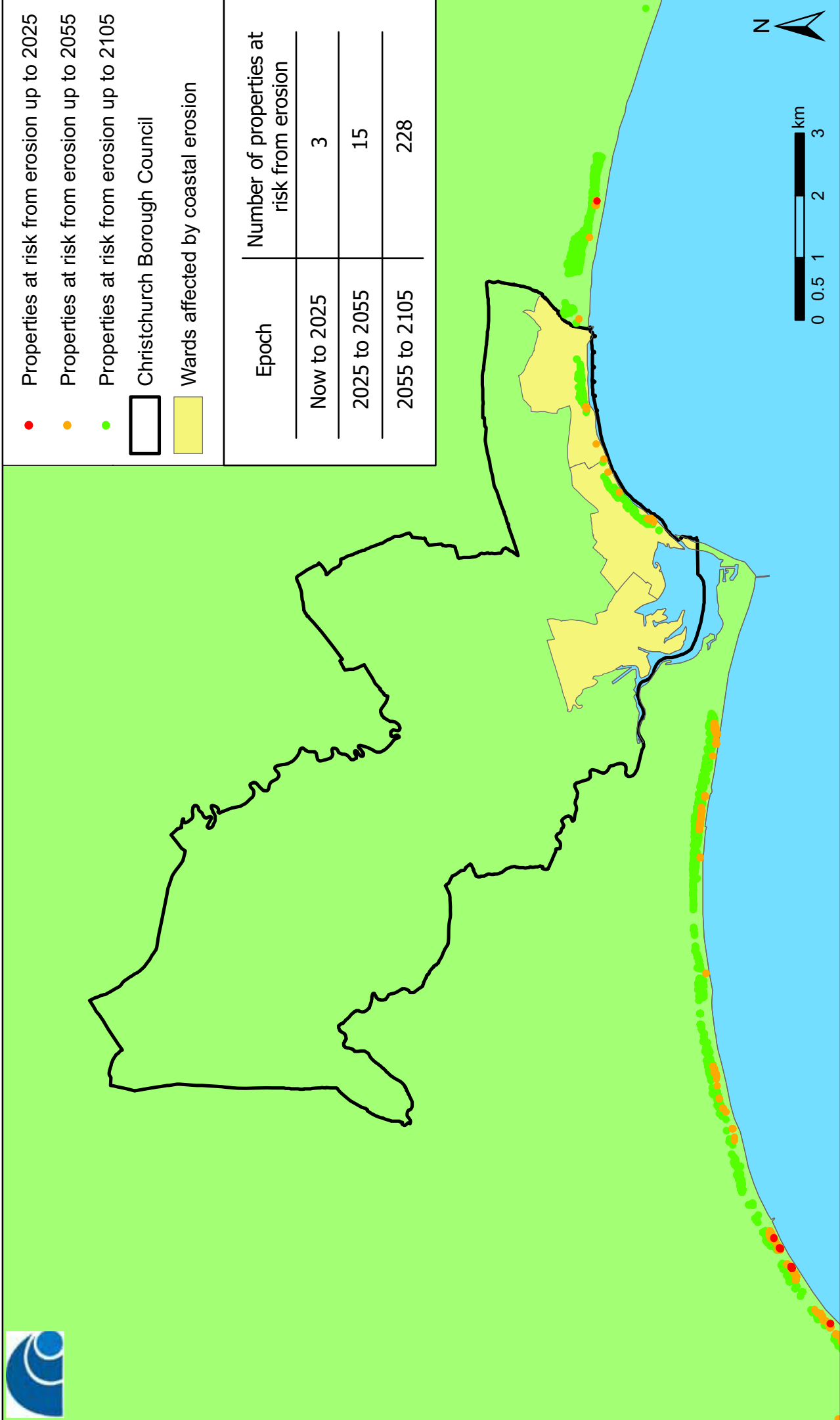
Two sets of maps were produced; Broad scale mapping showing the properties at risk per ward under an NAI scenario and more detailed mapping showing erosion and flood risk for Management Units under an NAI and WPM scenario.

- **Broad scale erosion risk mapping**

Maps were produced for each Local Authority boundary depicting the number of properties at risk from erosion up to 2025, 2055 and 2105 (see maps below). The 0-20, 20-50 and 50-100 year erosion zones were used to identify the number of properties at risk; those properties at risk in the 0-20 year epoch were coloured red, those properties at risk in the 20-50 year epoch were coloured orange and those properties at risk in the 50-100 year epoch were coloured green. Any ward affected by coastal erosion were coloured yellow, regardless of whether there were properties at risk.

The number of properties at risk of erosion up to 2025, 2055 and 2105, per ward, are detailed in Tables 1-5.

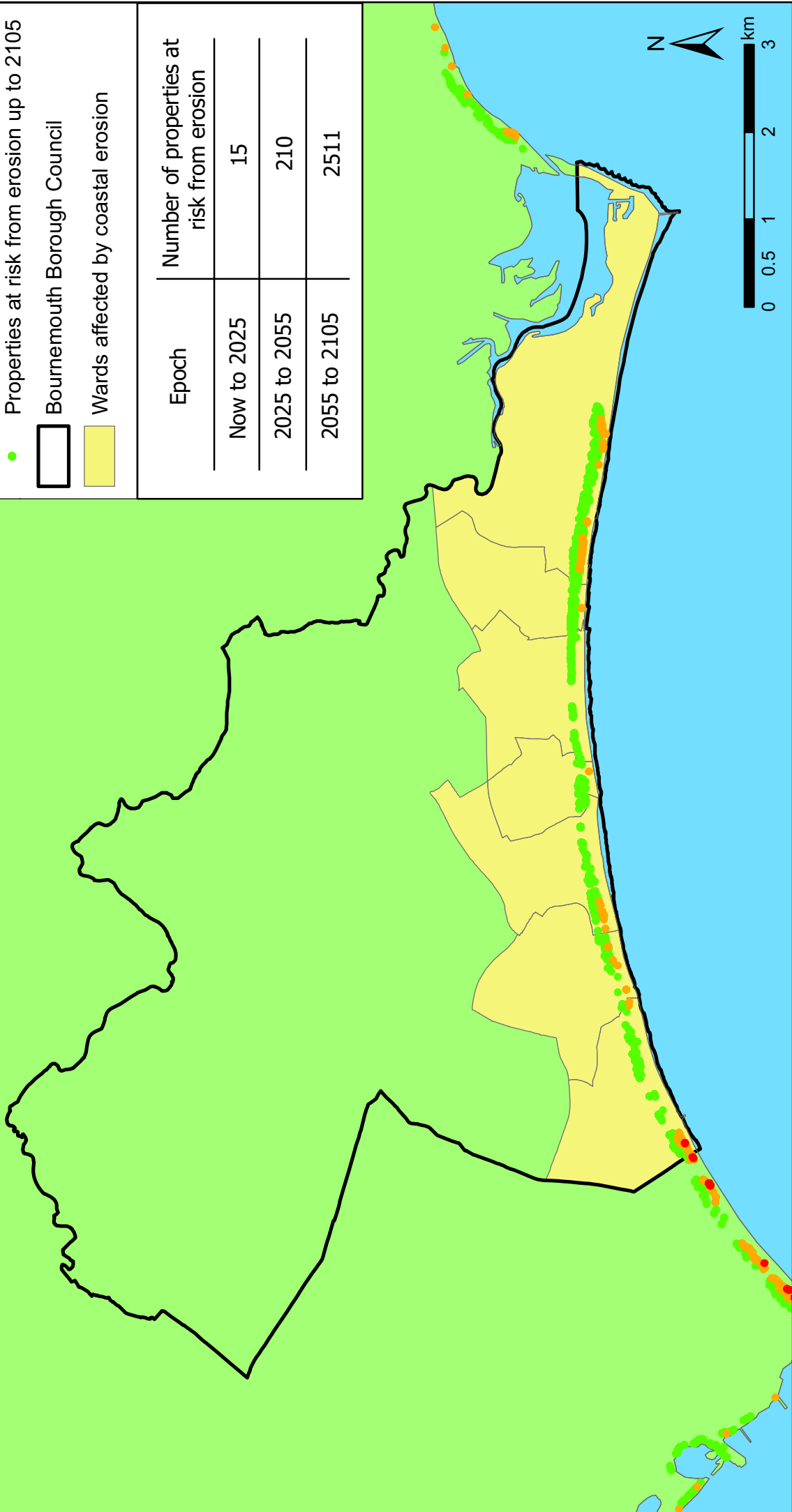


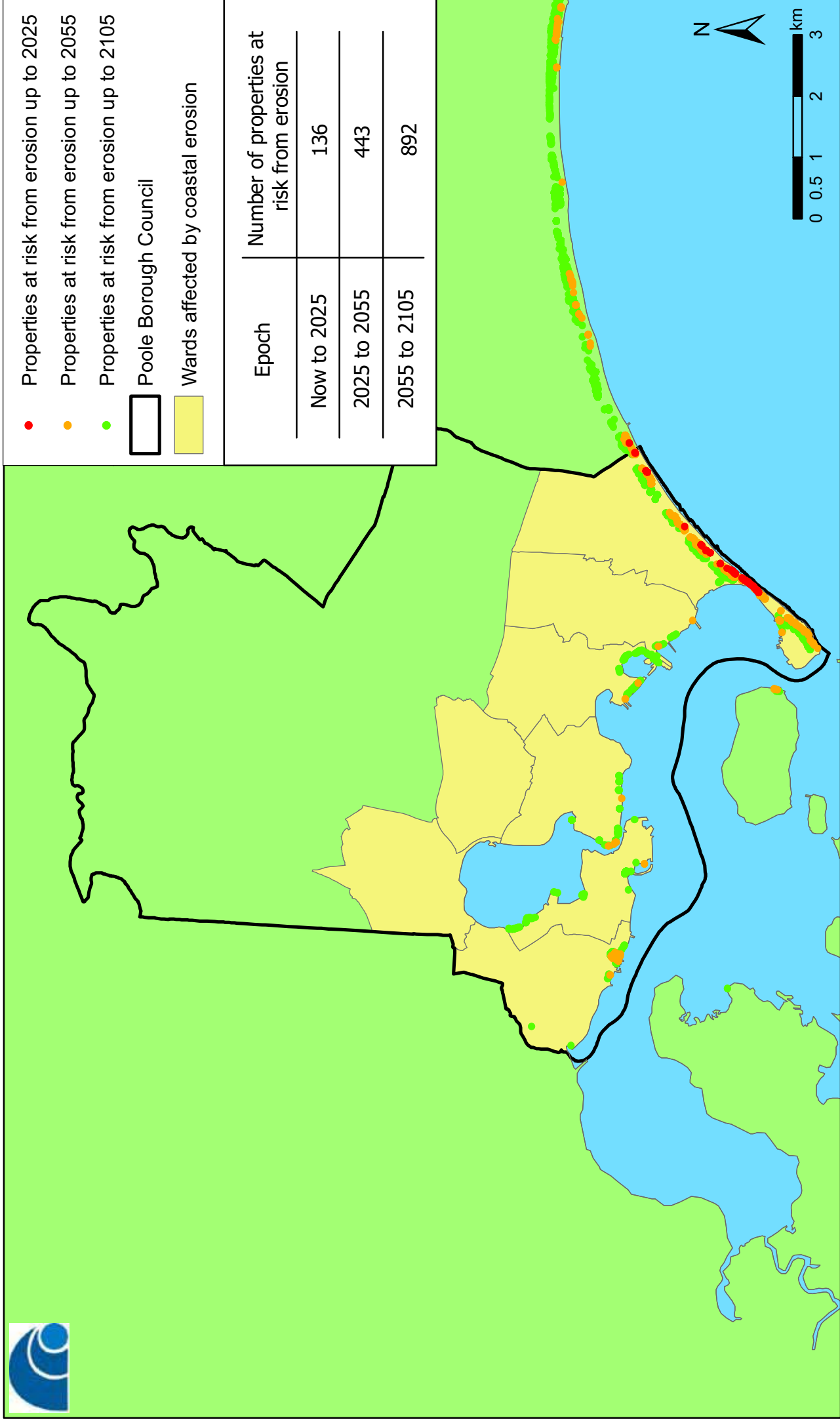


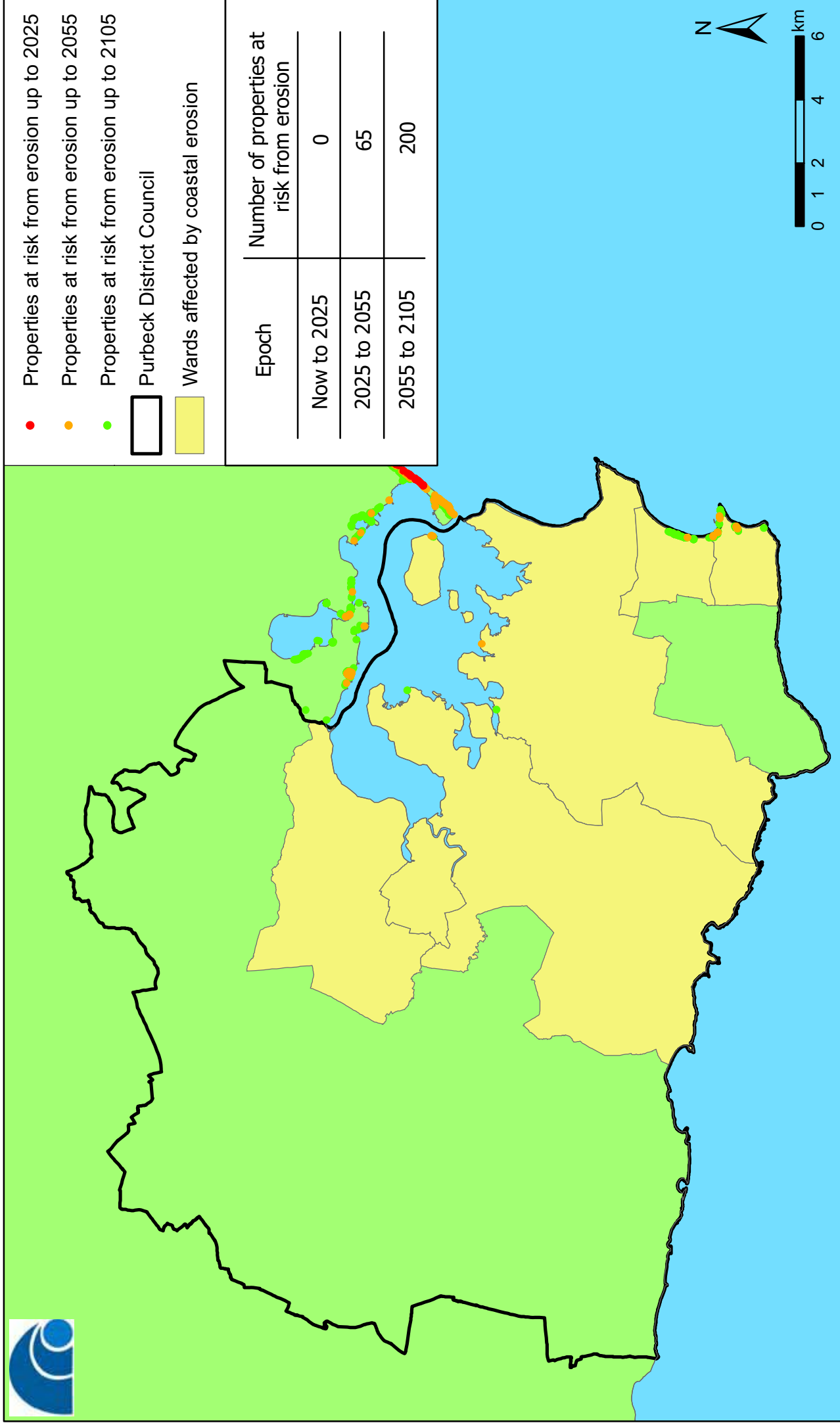


- Properties at risk from erosion up to 2025
- Properties at risk from erosion up to 2055
- Properties at risk from erosion up to 2105
- Bournemouth Borough Council
- Wards affected by coastal erosion

Epoch	Number of properties at risk from erosion
Now to 2025	15
2025 to 2055	210
2055 to 2105	2511







Local Authority	Local Authority Wards at Risk from Erosion	Number of Properties at Risk from Erosion under a No Active Intervention Scenario			
		0-20 years	20-50 years	50-100 years	0-100 years
		Becton	0	0	72
Barton	1	8	511	520	
Milford	0	40	497	537	
Total		1	48	1080	1129

Table 1: Number of properties at risk from erosion per year, per ward for New Forest District Council

Local Authority	Local Authority Wards at Risk from Erosion	Number of Properties at Risk from Erosion under a No Active Intervention Scenario			
		0-20 years	20-50 years	50-100 years	0-100 years
		Purewell and Stanpit Ward	0	0	0
Town Centre Ward	0	0	0	0	
Highcliffe Ward	0	5	148	153	
Mudeford and Friars Cliff Ward	3	10	80	93	
Total		3	15	228	246

Table 2: Number of properties at risk from flooding per year, per ward for Christchurch District Council

Local Authority	Local Authority Wards at Risk from Erosion	Number of Properties at Risk from Erosion under a No Active Intervention Scenario			
		0-20 years	20-50 years	50-100 years	0-100 years
		0	57	578	635
Bournemouth BC	East Southbourne and Tuckton	4	61	444	509
	Westbourne and West Cliff Ward	7	18	292	317
	Central Ward	1	61	582	644
	East Cliff and Springbourne Ward	0	0	194	194
	Boscombe East Ward	3	1	266	270
	Boscombe West Ward	0	12	155	167
	West Southbourne Ward	15	210	2511	2736
	Total				

Table 3: Number of properties at risk from flooding per year, per ward for Bournemouth Borough Council

Local Authority	Local Authority Wards at Risk from Erosion	Number of Properties at Risk from Erosion under a No Active Intervention Scenario			
		0-20 years	20-50 years	50-100 years	0-100 years
		0	67	56	123
Poole BC	Hamworthy West Ward	0	2	110	112
	Hamworthy East Ward	1	8	156	165
	Poole Town Ward	1	2	117	120
	Parkstone Ward	134	362	438	934
	Canford Cliffs Ward	0	2	15	17
	Penn Hill Ward	0	0	0	0
	Creekmoor Ward	0	0	0	0
	Oakdale	0	0	0	0
	Total	136	443	892	1471

Table 4: Number of properties at risk from flooding per year, per ward for Poole Borough Council

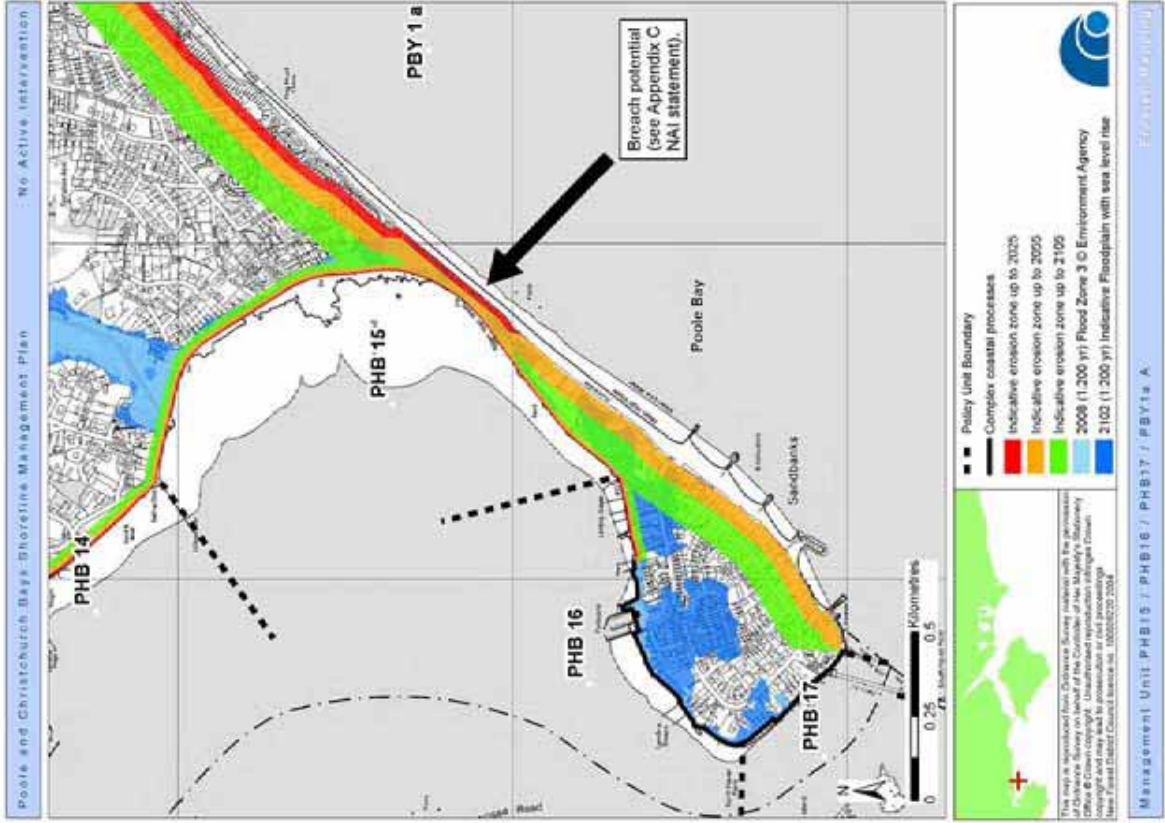
Local Authority	Local Authority Wards at Risk from Erosion	Number of Properties at Risk from Erosion under a No Active Intervention Scenario			
		0-20 years	20-50 years	50-100 years	0-100 years
Purbeck DC	Castle Ward	0	7	5	12
	St Martin's Ward	0	0	0	0
	Creech Barrow Ward	0	0	1	1
	Wareham Ward	0	0	0	0
	Swanage South Ward	0	48	88	136
	Swanage North Ward	0	10	106	116
	Lychett Minster and Upton East Ward	0	0	0	0
	Lychett Minster and Upton West Ward	0	0	0	0
	Total	0	65	200	265

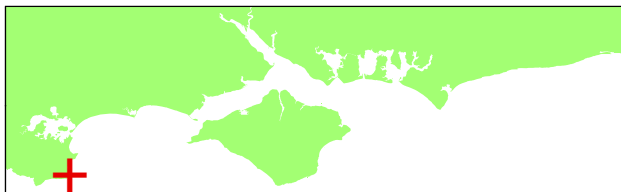
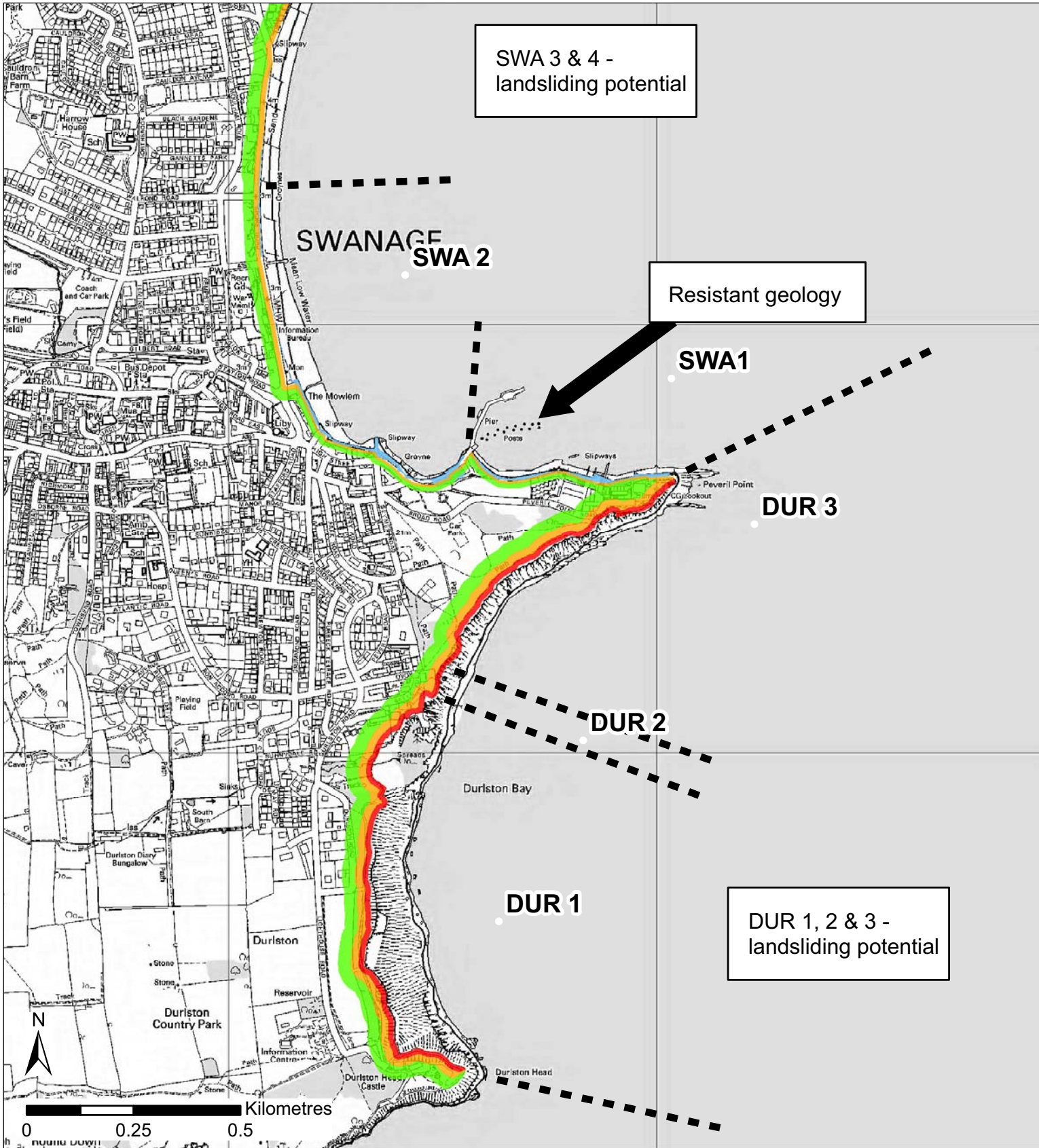
Table 5: Number of properties at risk from flooding per year, per ward for Purbeck District Council

- **Management unit erosion risk mapping**

The erosion maps were based on Management Units from the first Poole and Christchurch Bays Shoreline Management Plan (1999). The examples below for Sandbanks show the NAI and WPM maps for Management Units PHB15, PHB16 and PHB17 and PBY1a 'A'. The 'A' indicates that only half of PBY1a is shown. The remainder of PBY1a is shown in the adjacent map, called PBY1a B.

The maps show erosion for the 0-20 year (red zone), 20-50 year (orange zone) and 50-100 year (green zone) epochs. Given that flood risk will remain with or without defences, the maps also show the Environment Agency tidal flood zone 3 (light blue) overlaid onto the 2102 tidal floodplain (dark blue) to demonstrate increasing flood risk with sea level rise.

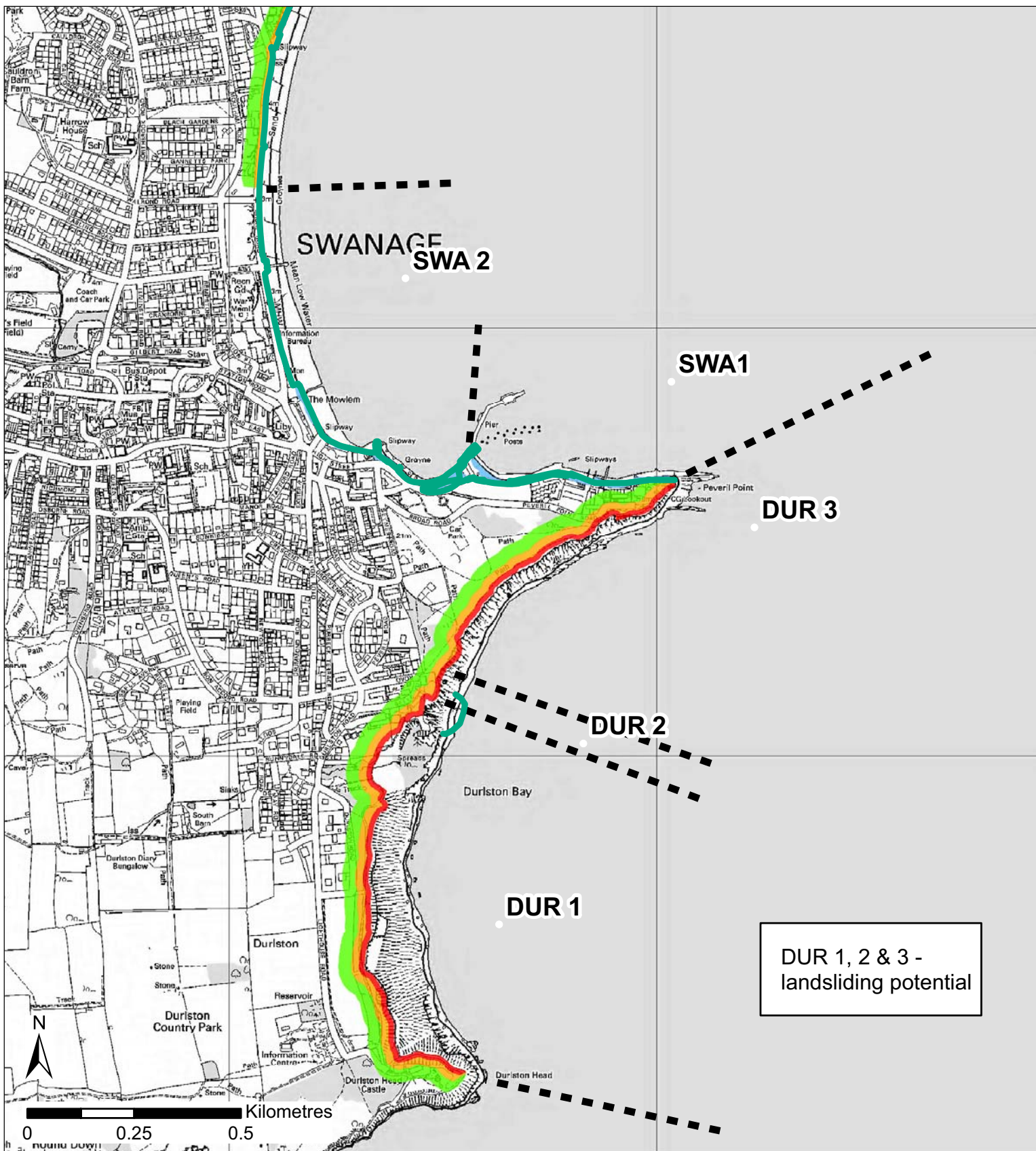




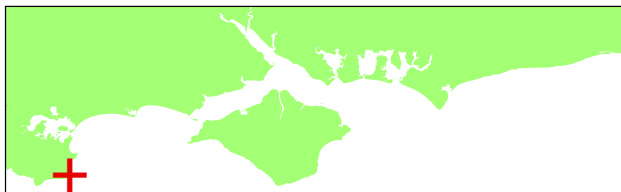
- ■ ■ Policy Unit Boundary
- Indicative erosion zone up to 2025
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- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise

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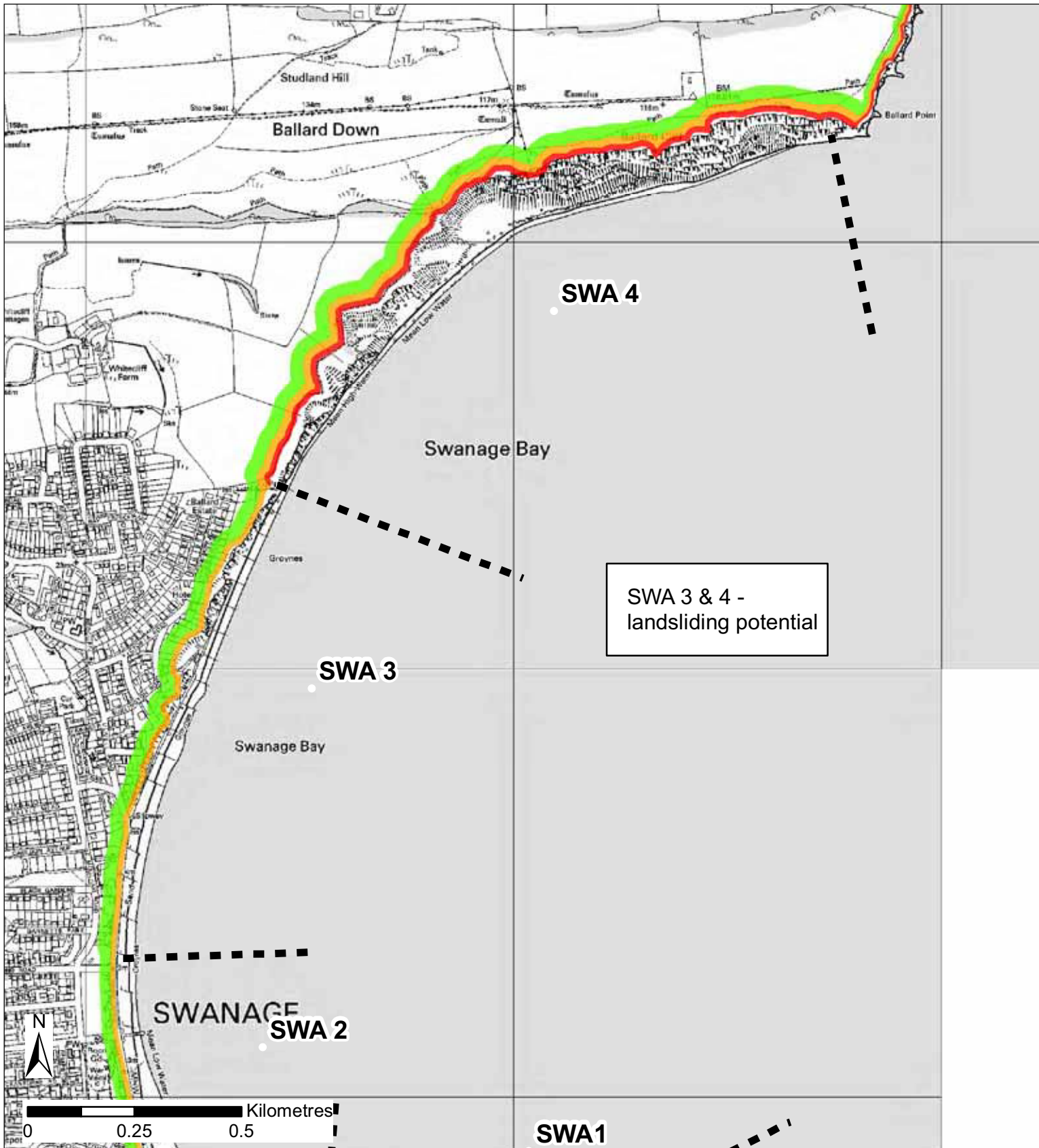
DUR 1, 2 & 3 -
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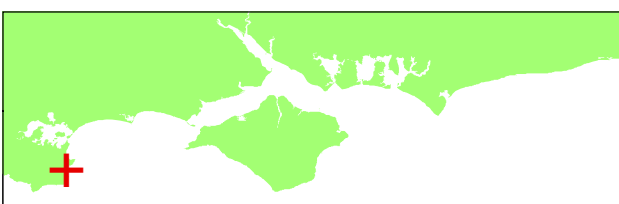
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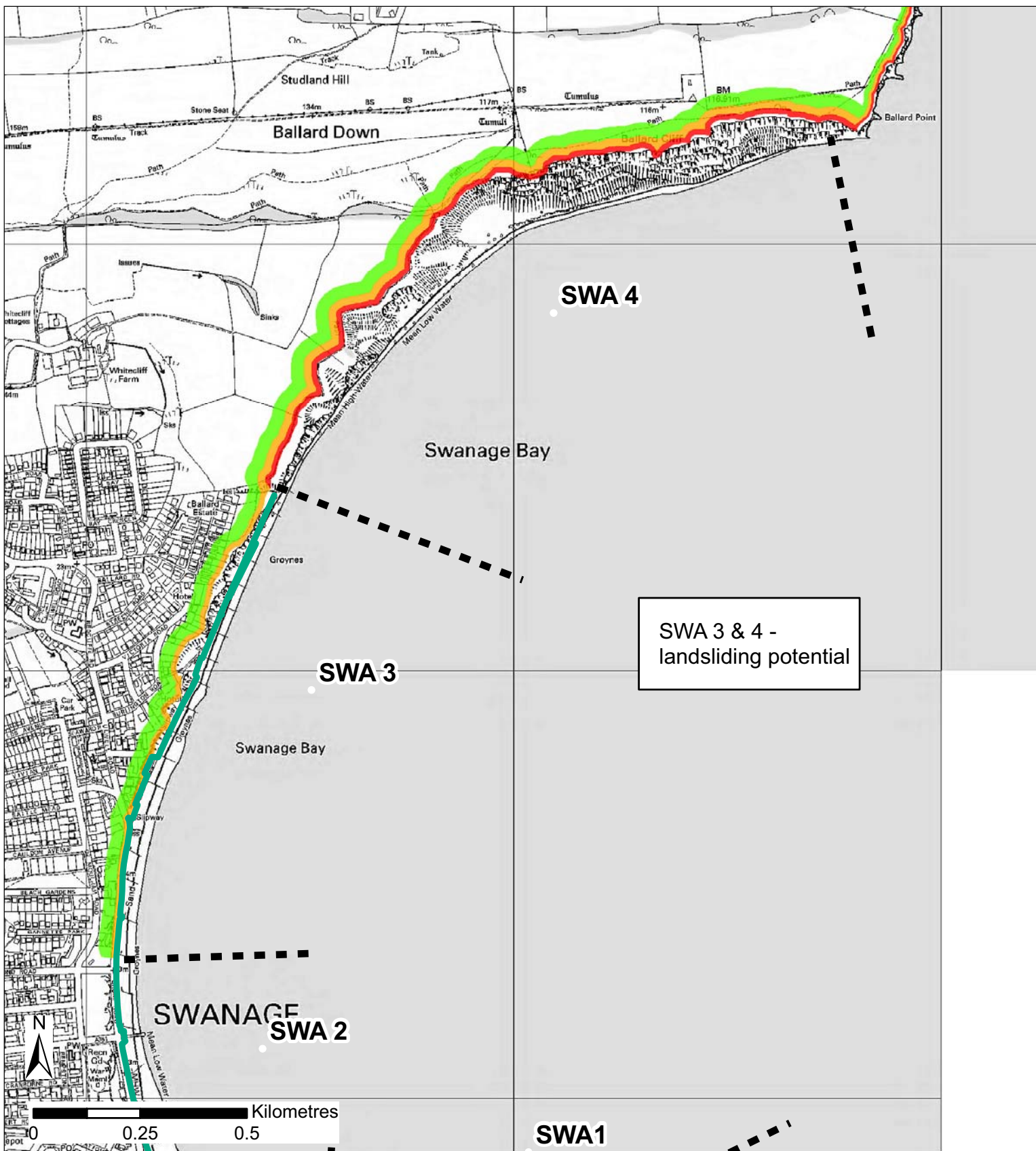
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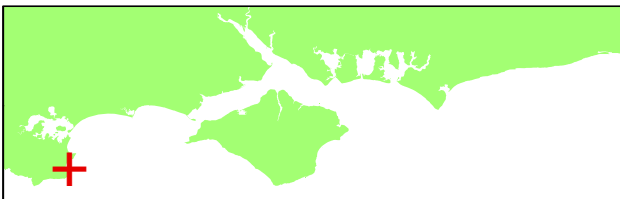
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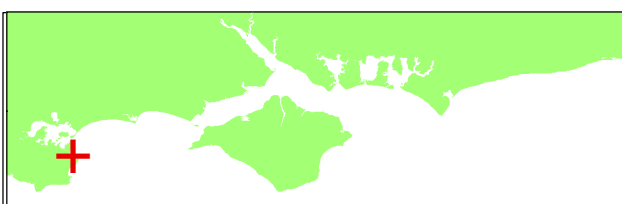
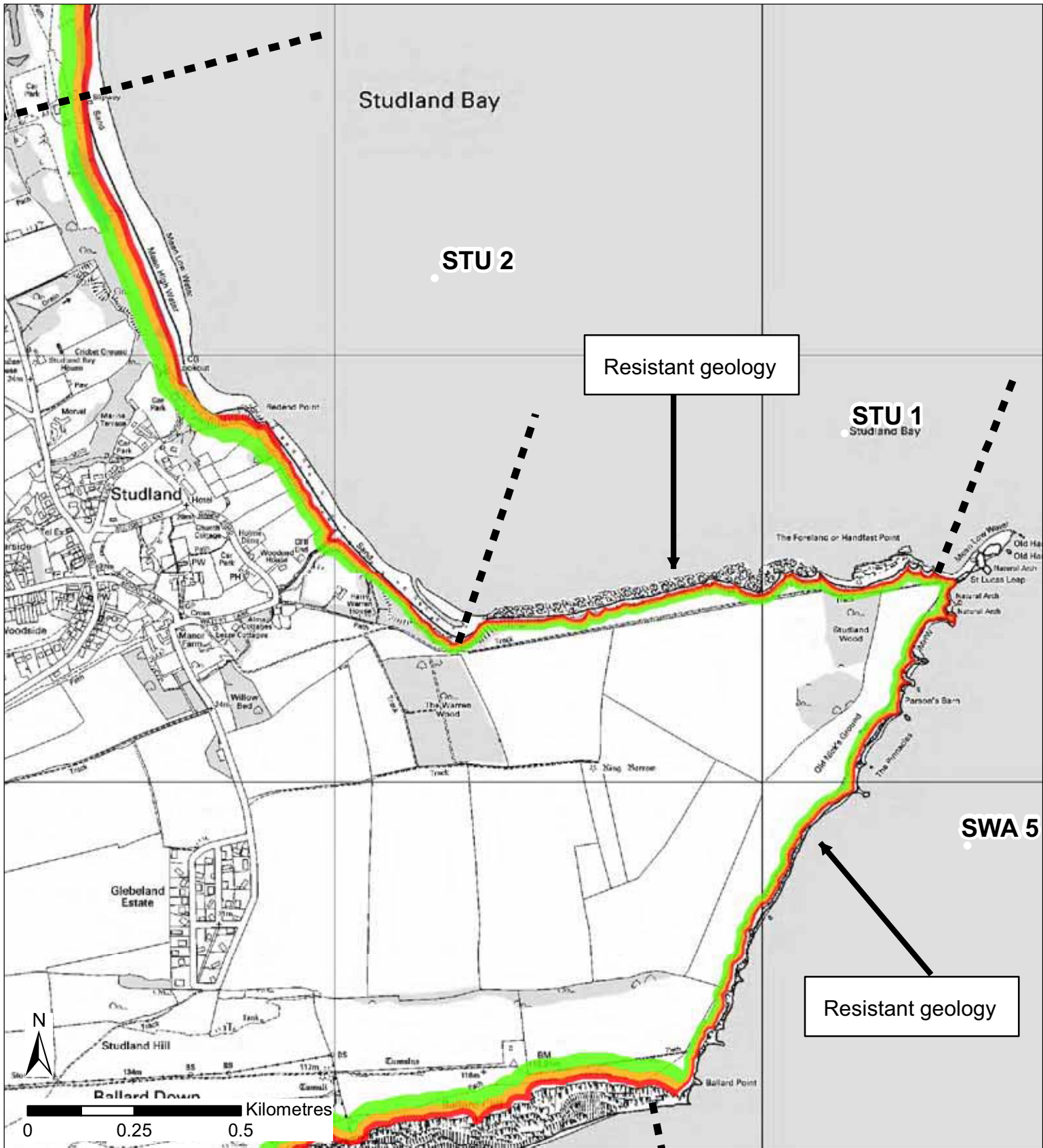
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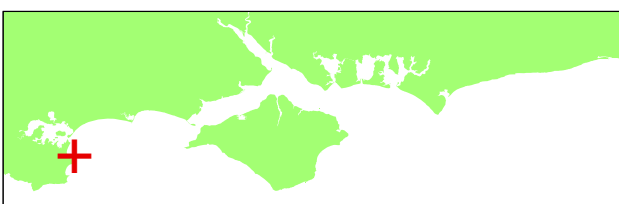
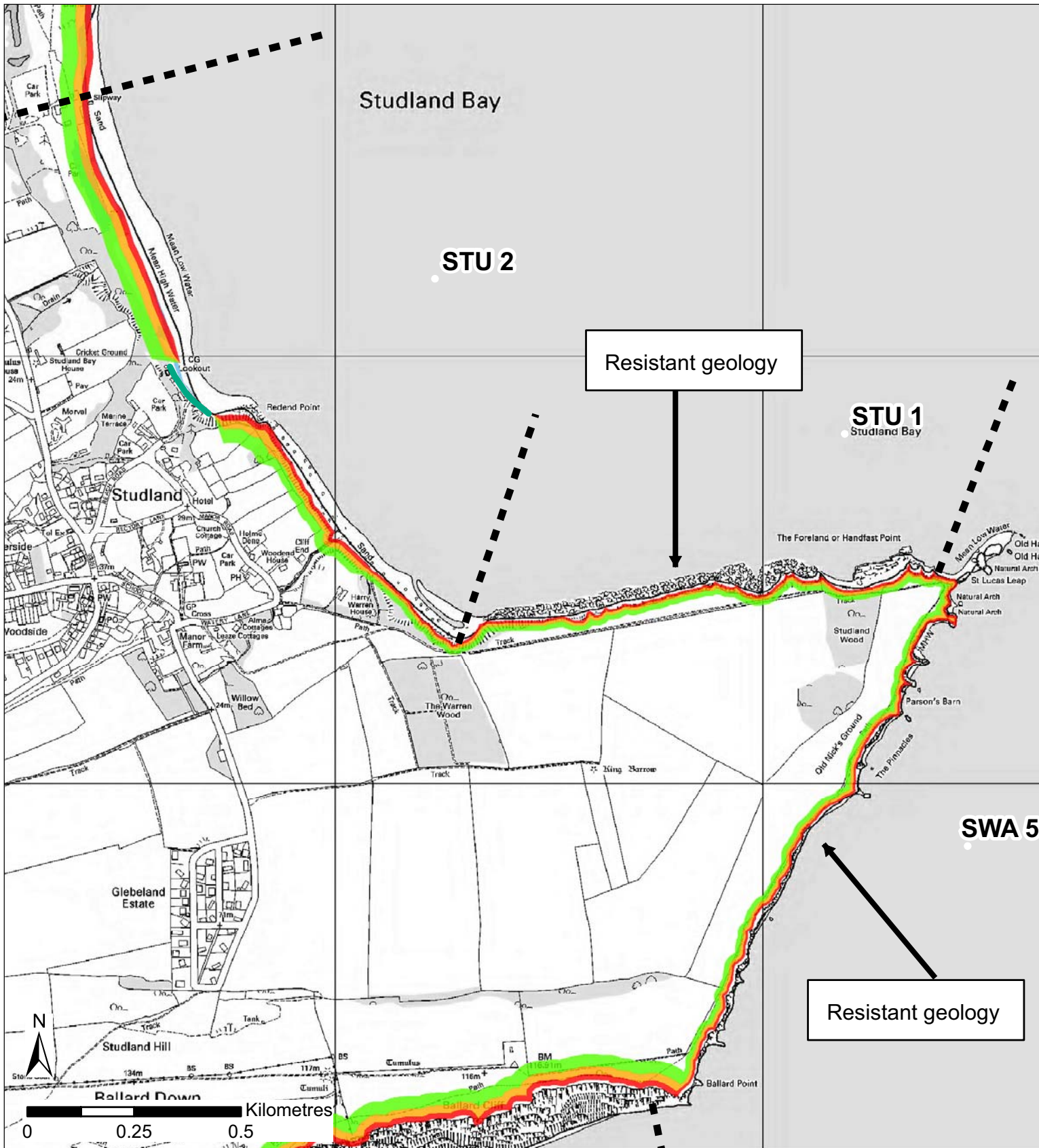




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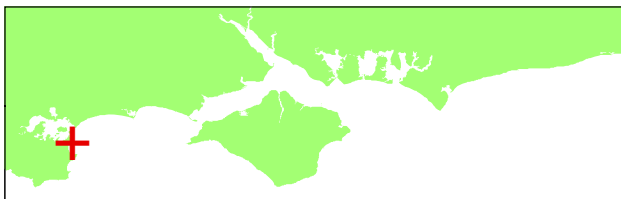
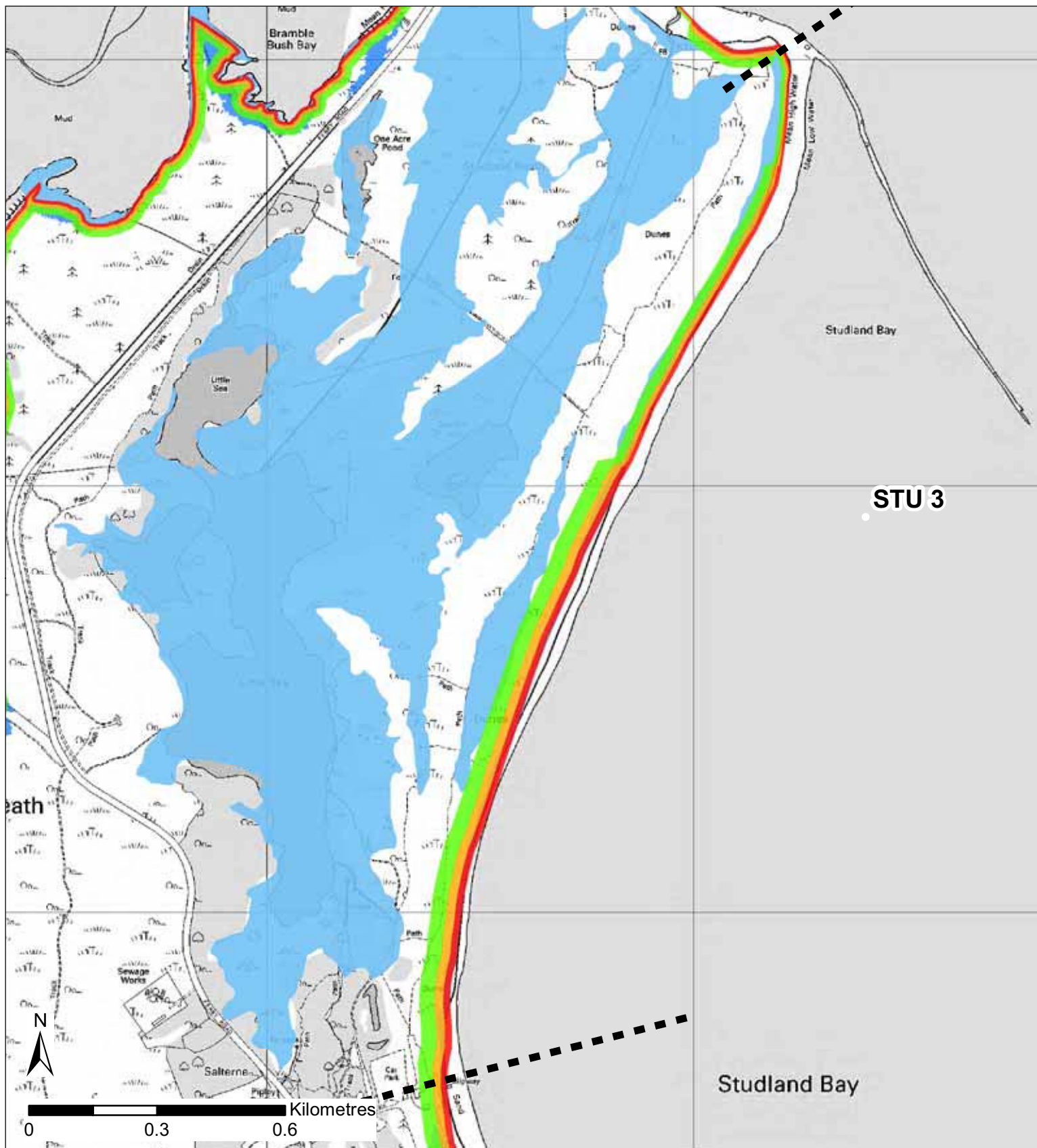




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Indicative erosion zone up to 2055

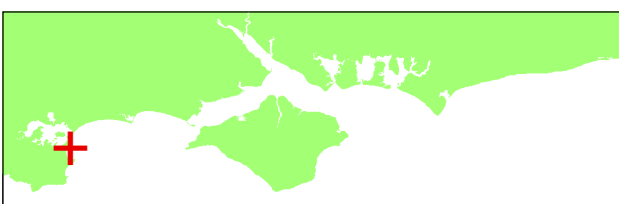
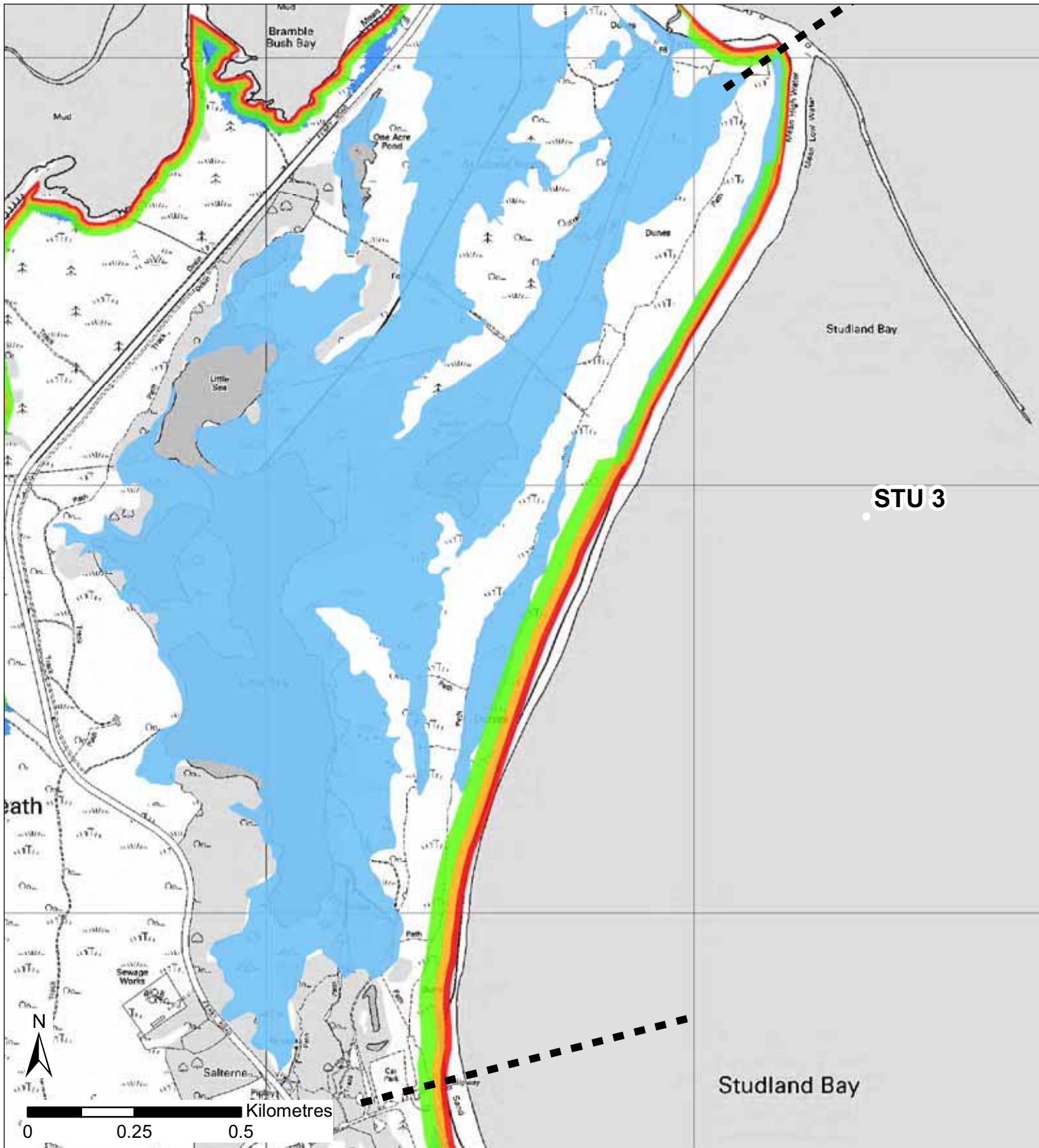
Indicative erosion zone up to 2105

2008 (1:200 yr) Flood Zone 3 © Environment Agency

2102 (1:200 yr) Indicative Floodplain with sea level rise



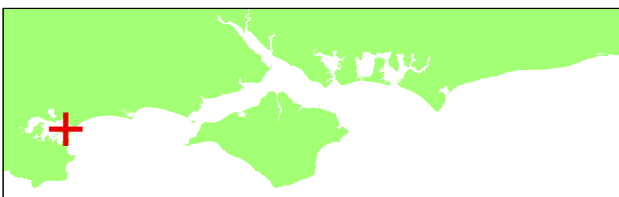
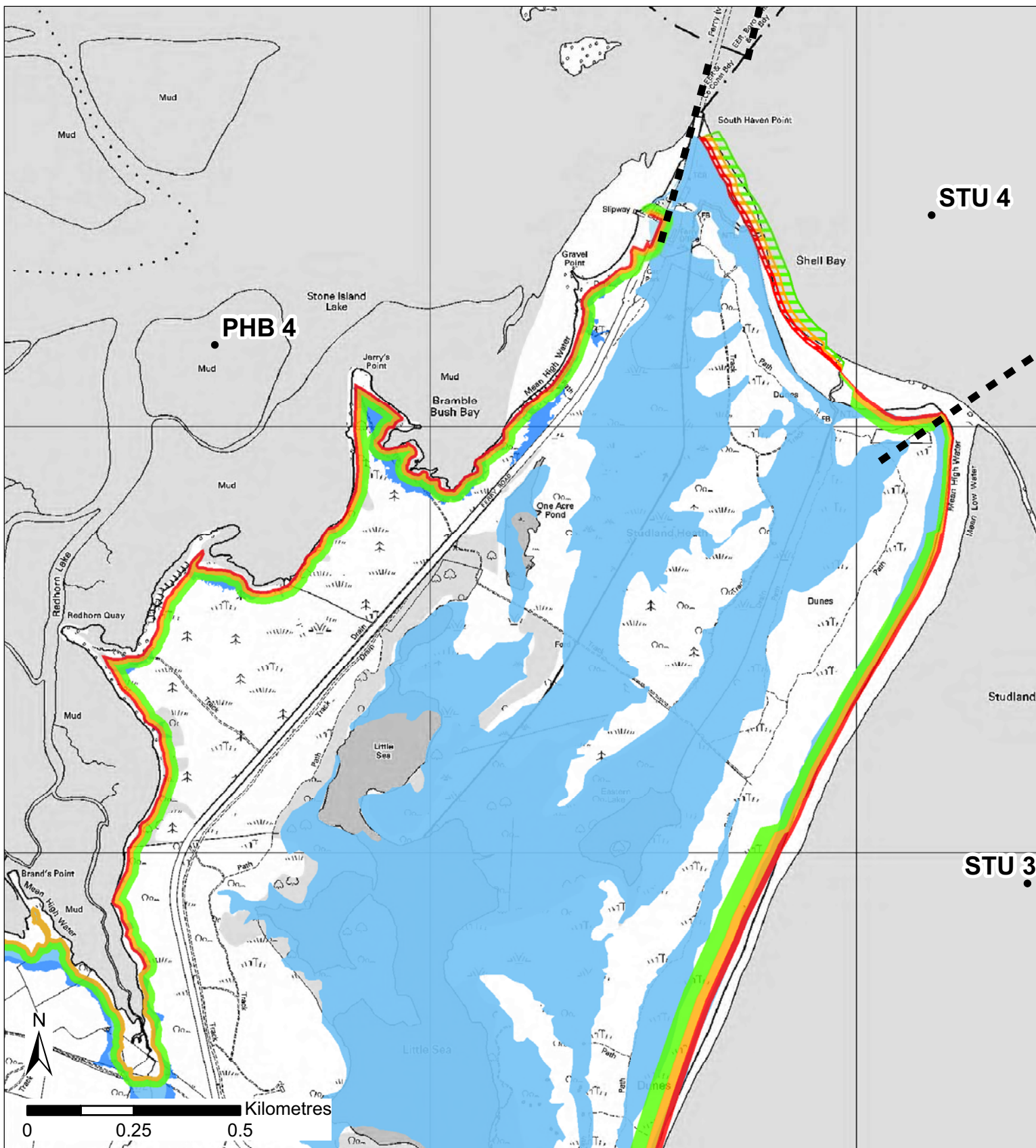
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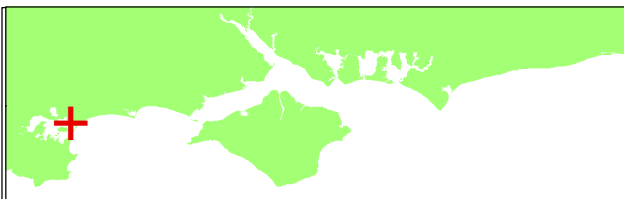
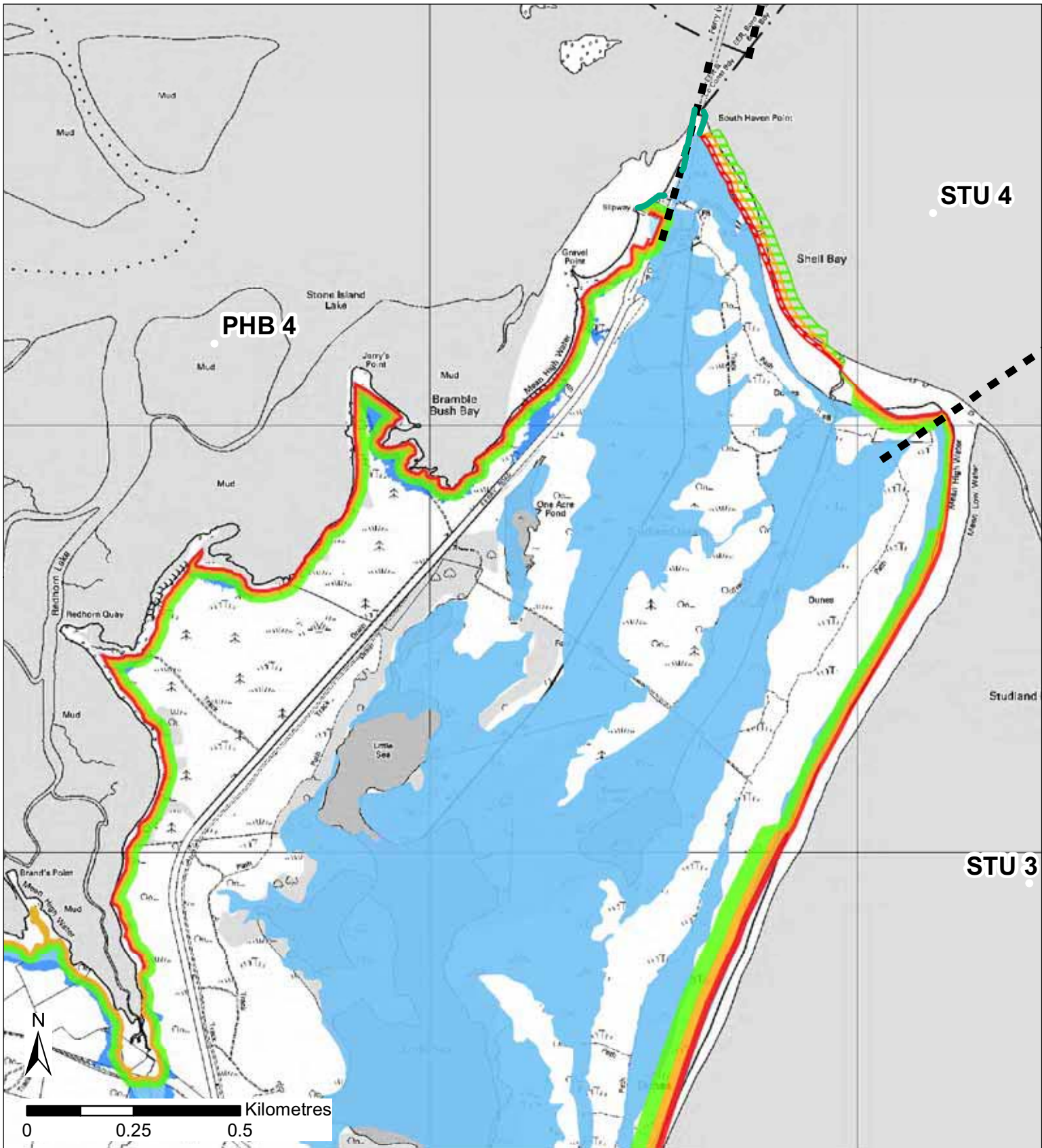




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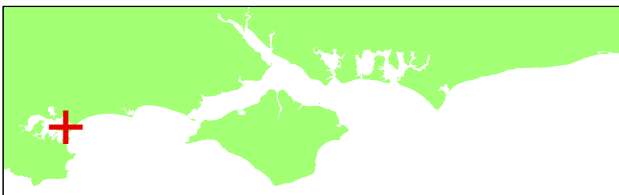
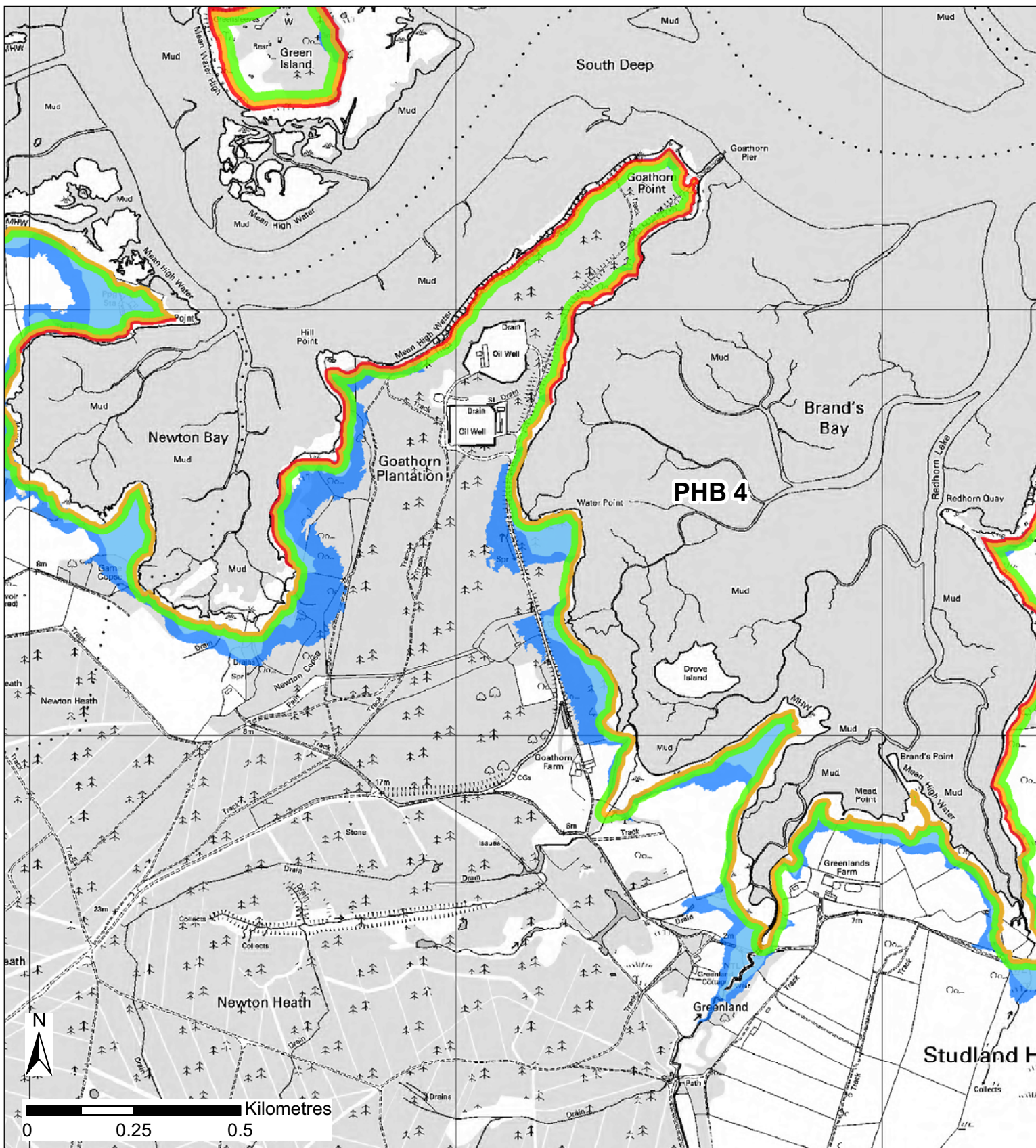




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Indicative erosion zone up to 2055

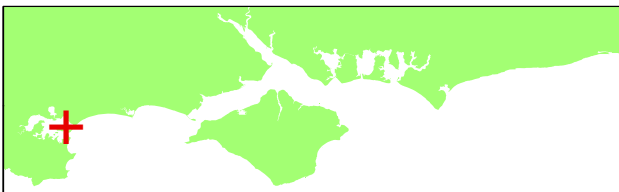
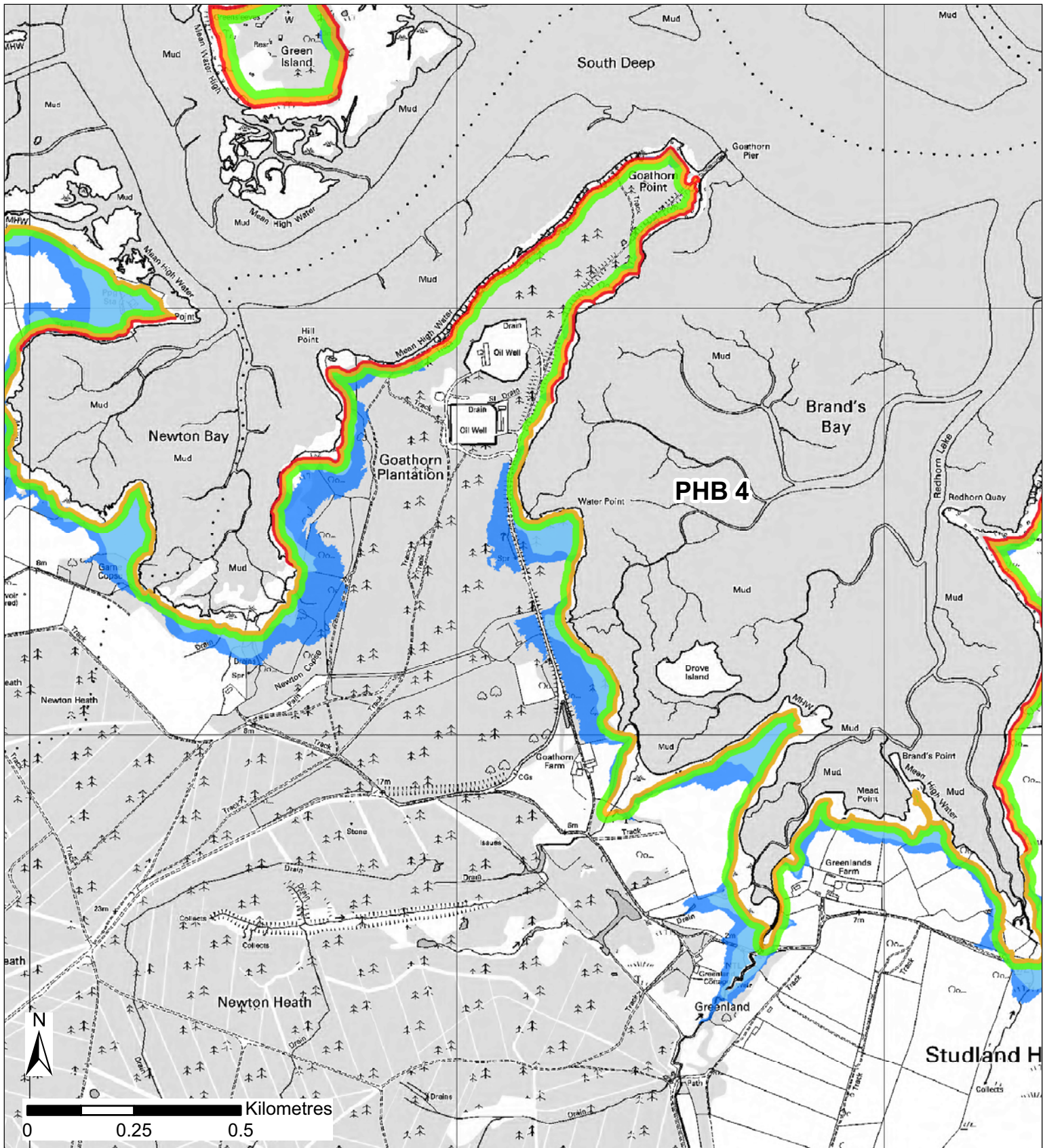
Indicative erosion zone up to 2105

2008 (1:200 yr) Flood Zone 3 © Environment Agency

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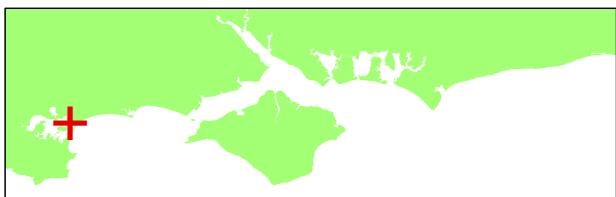
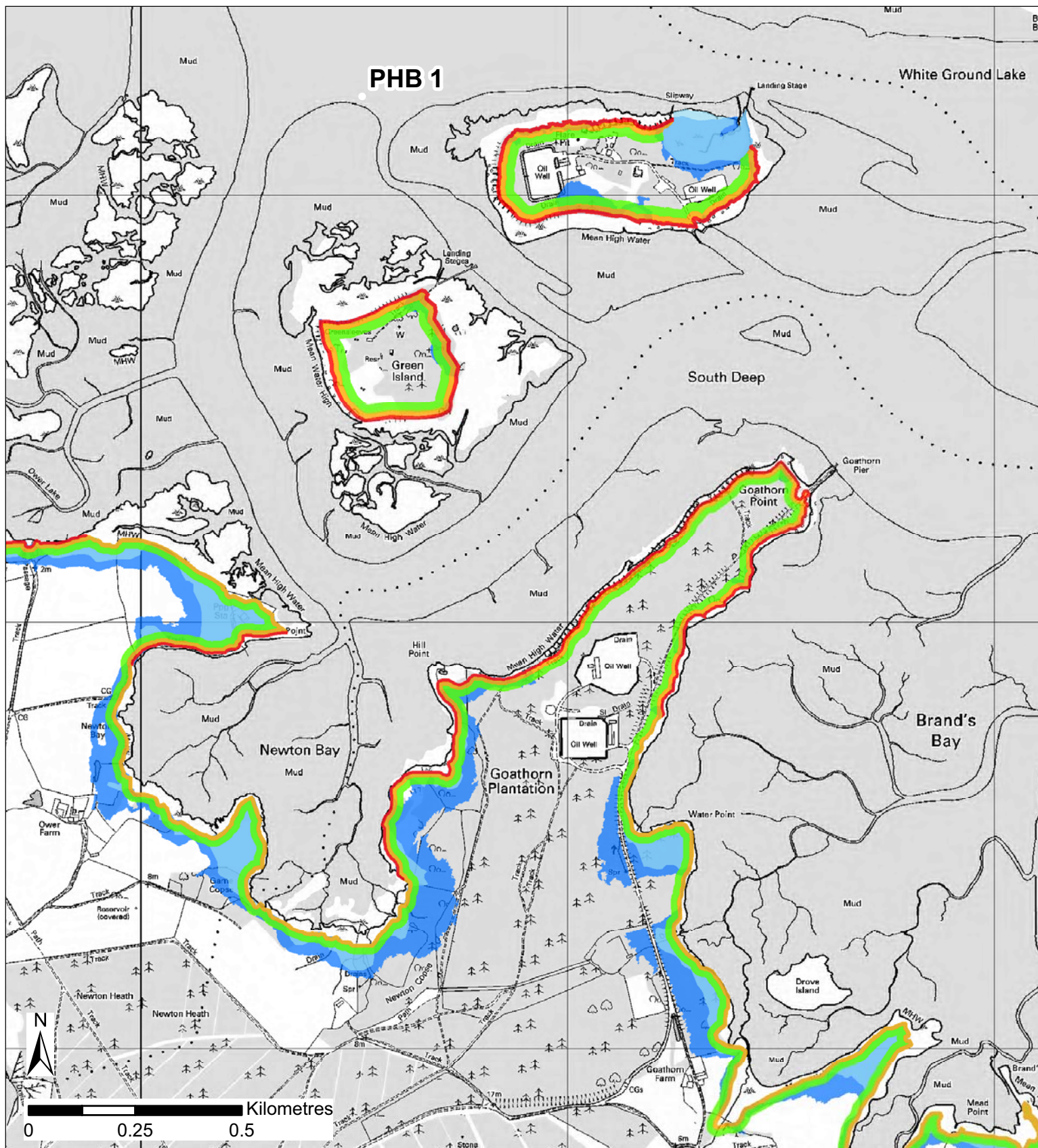
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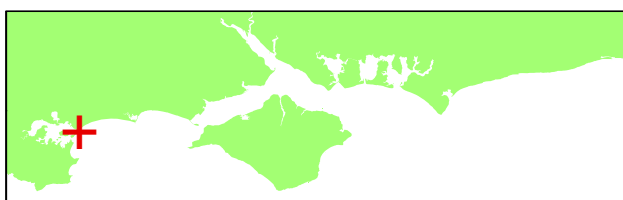
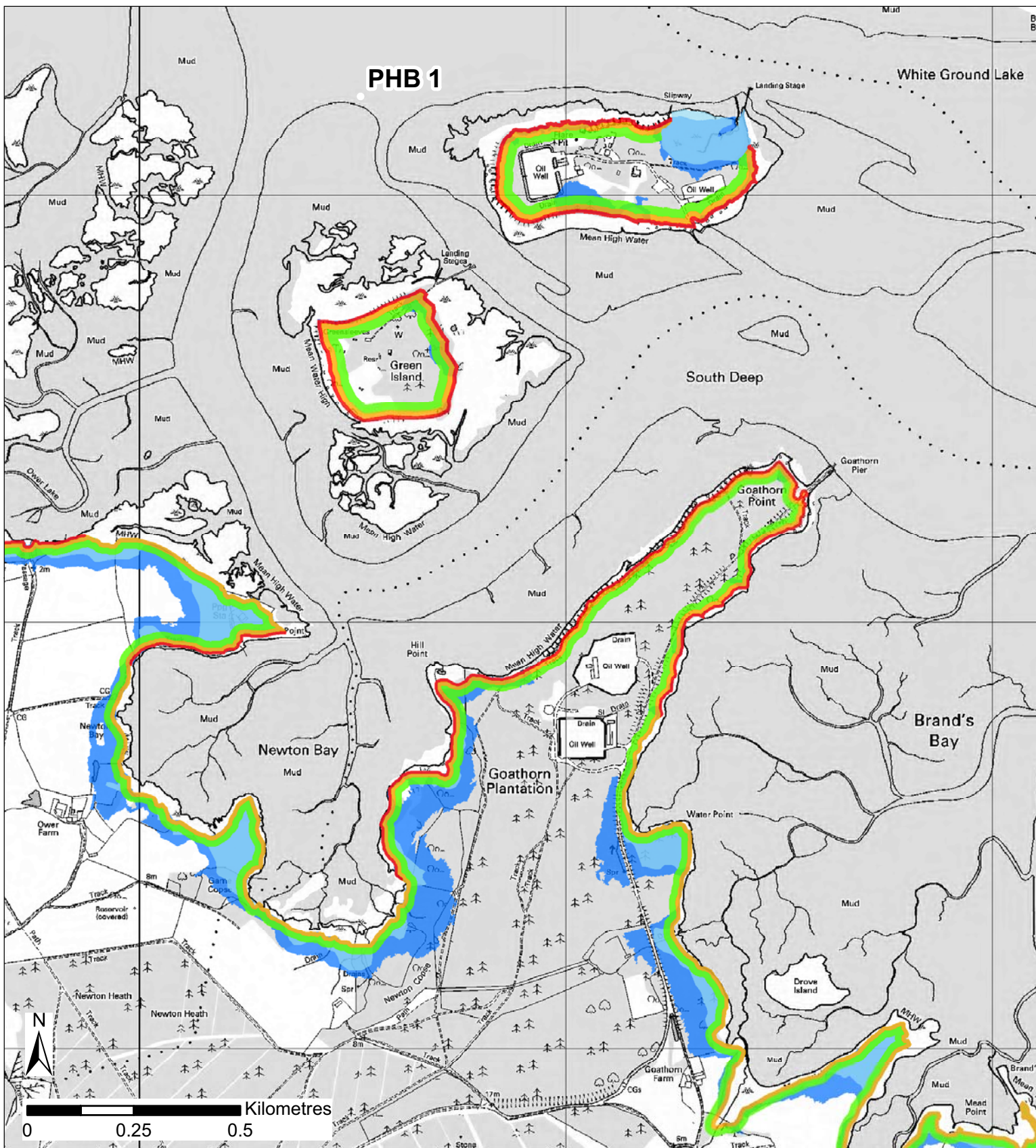




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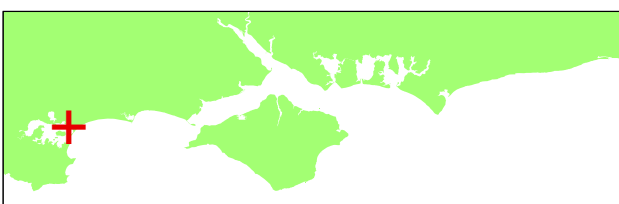




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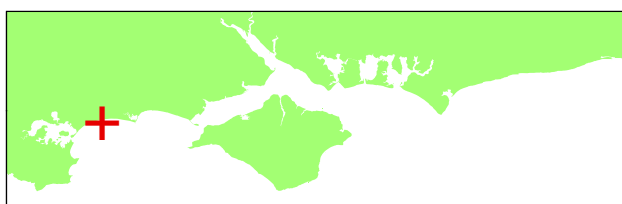
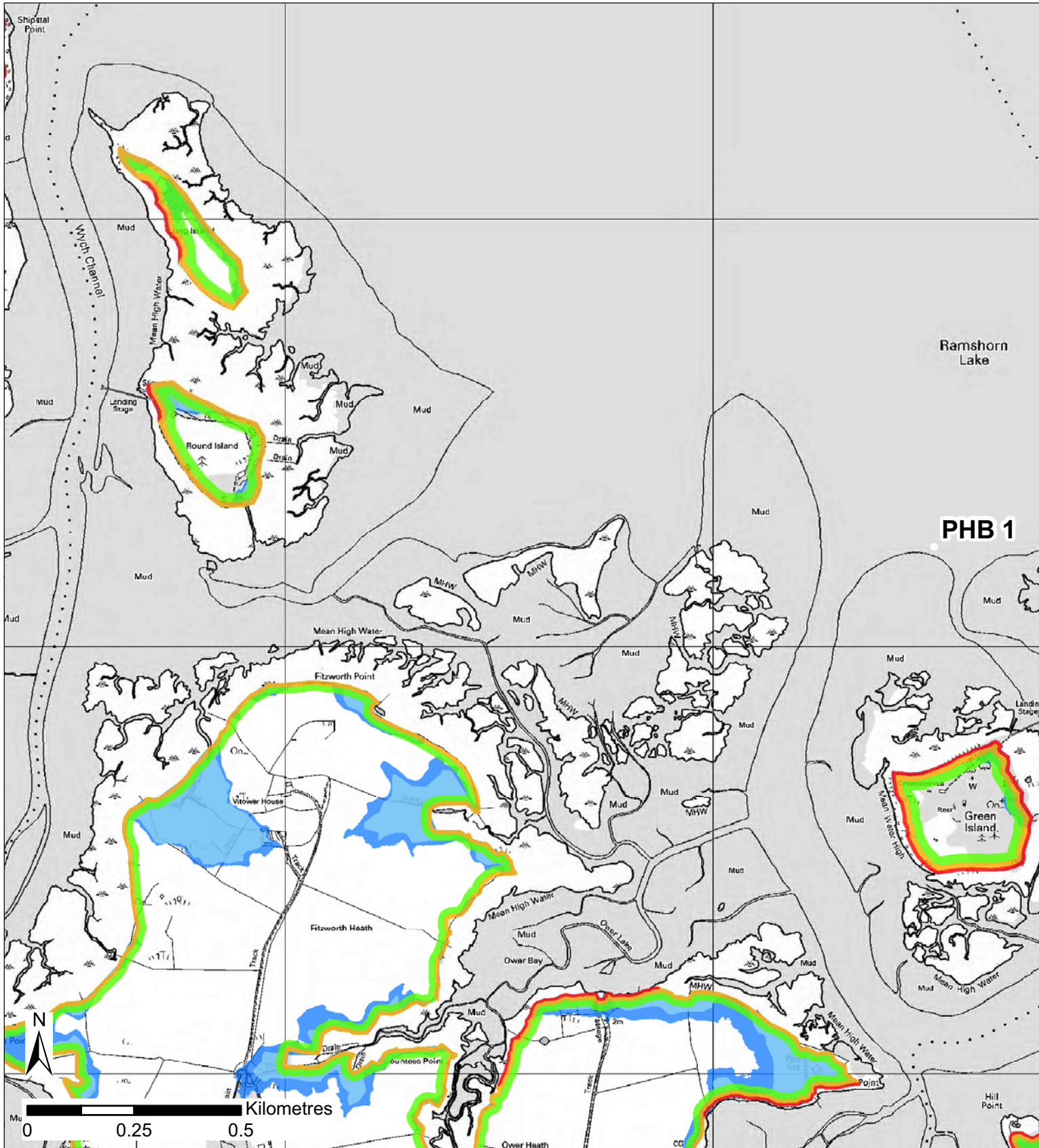




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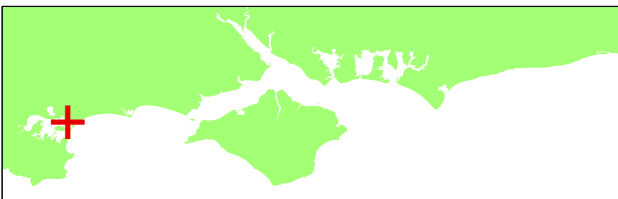
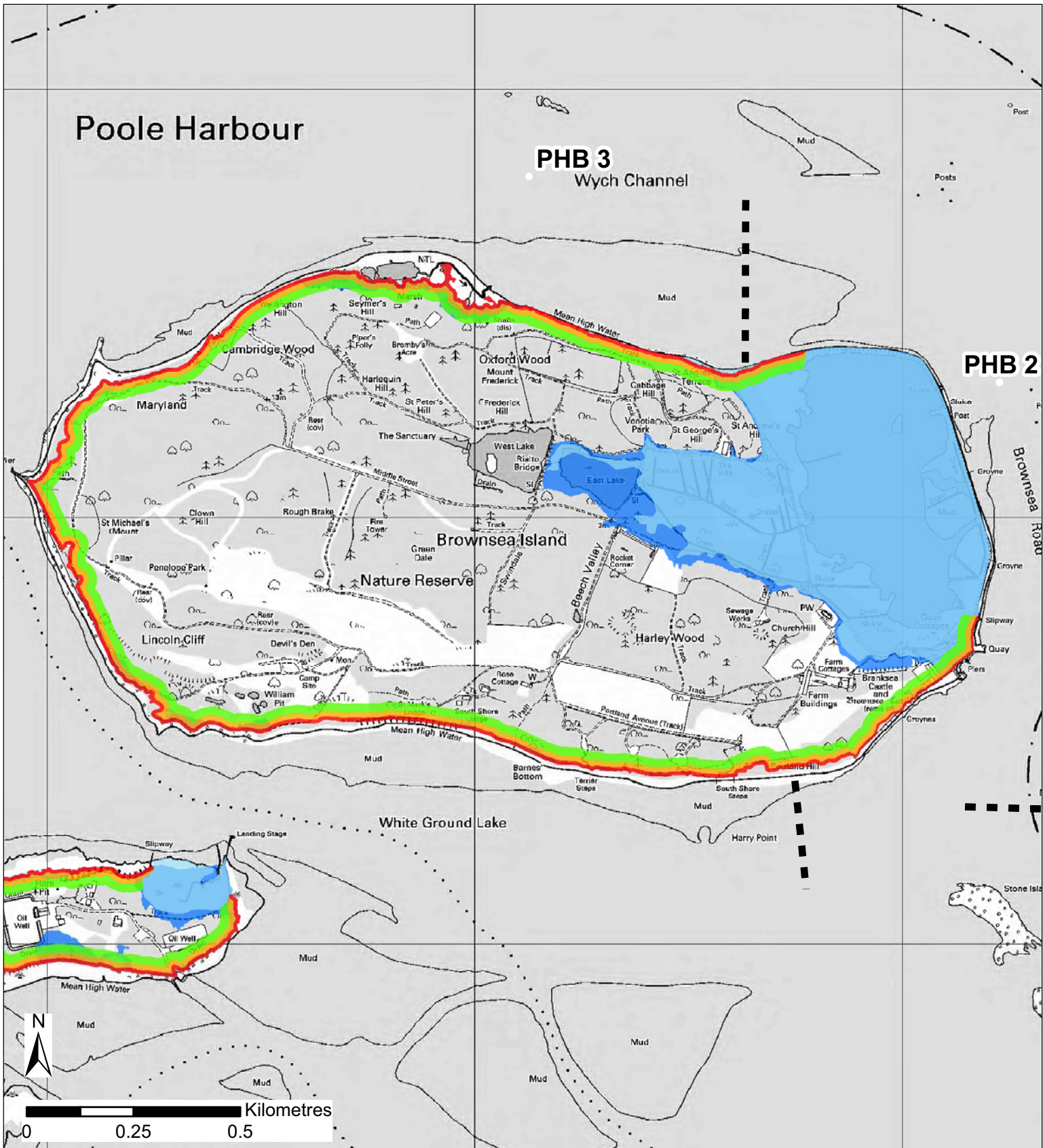




- ■ ■ Policy Unit Boundary
- Shoreline Management
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise


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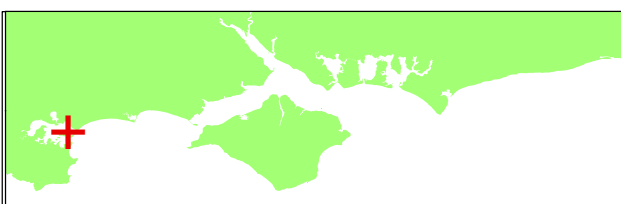
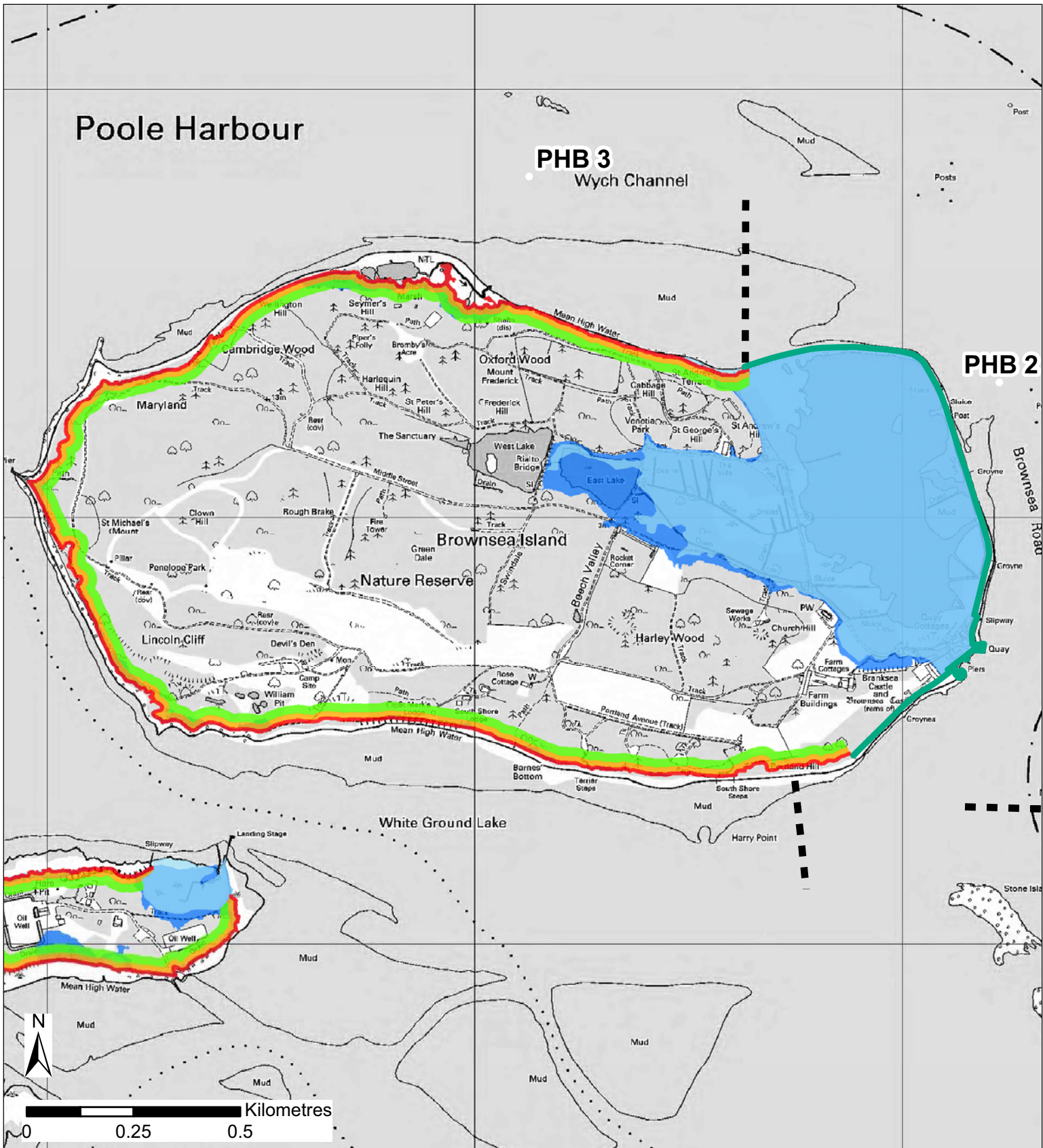




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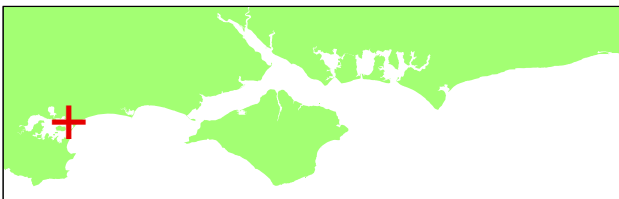
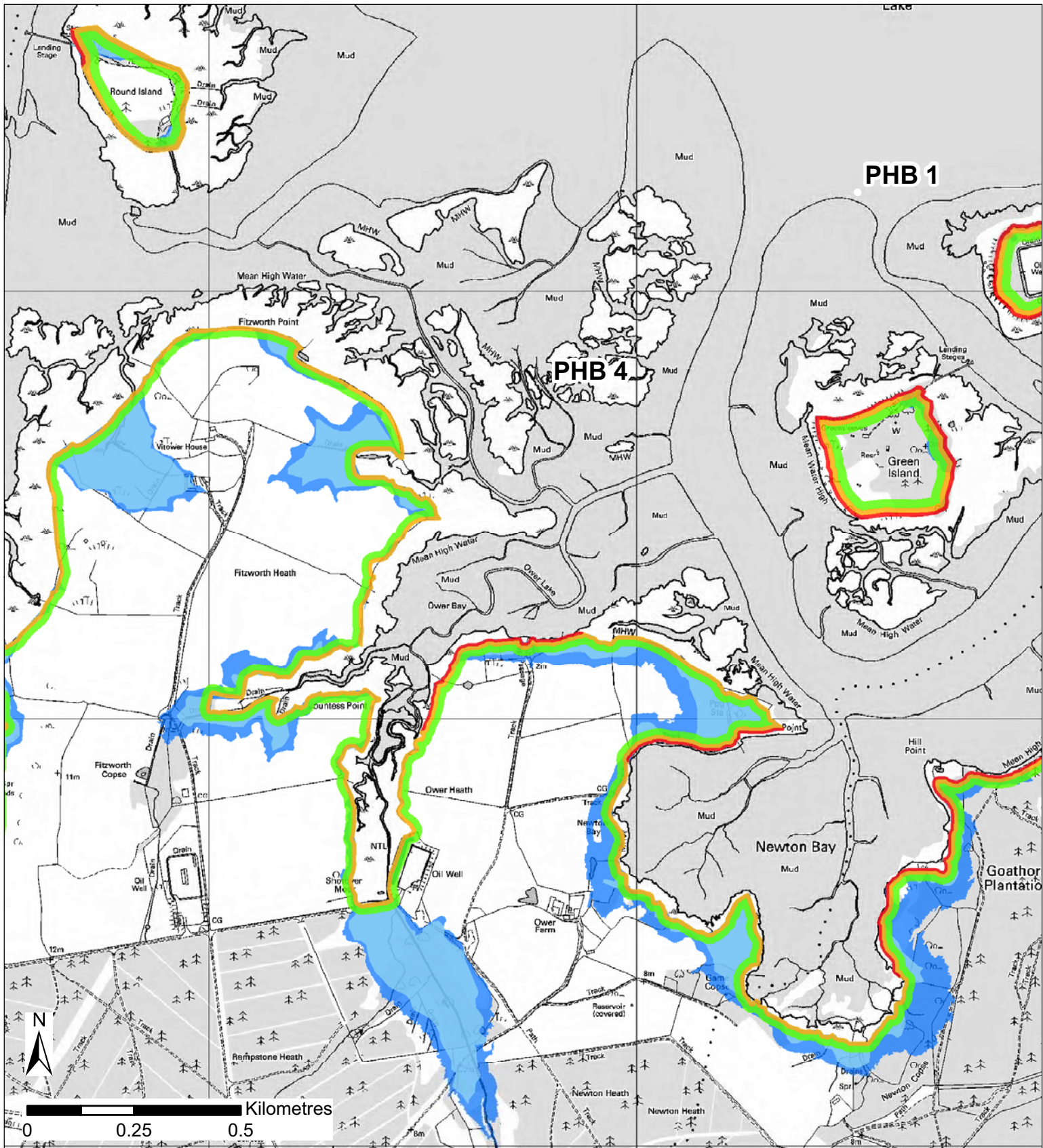




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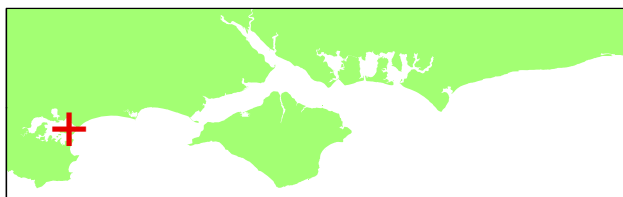
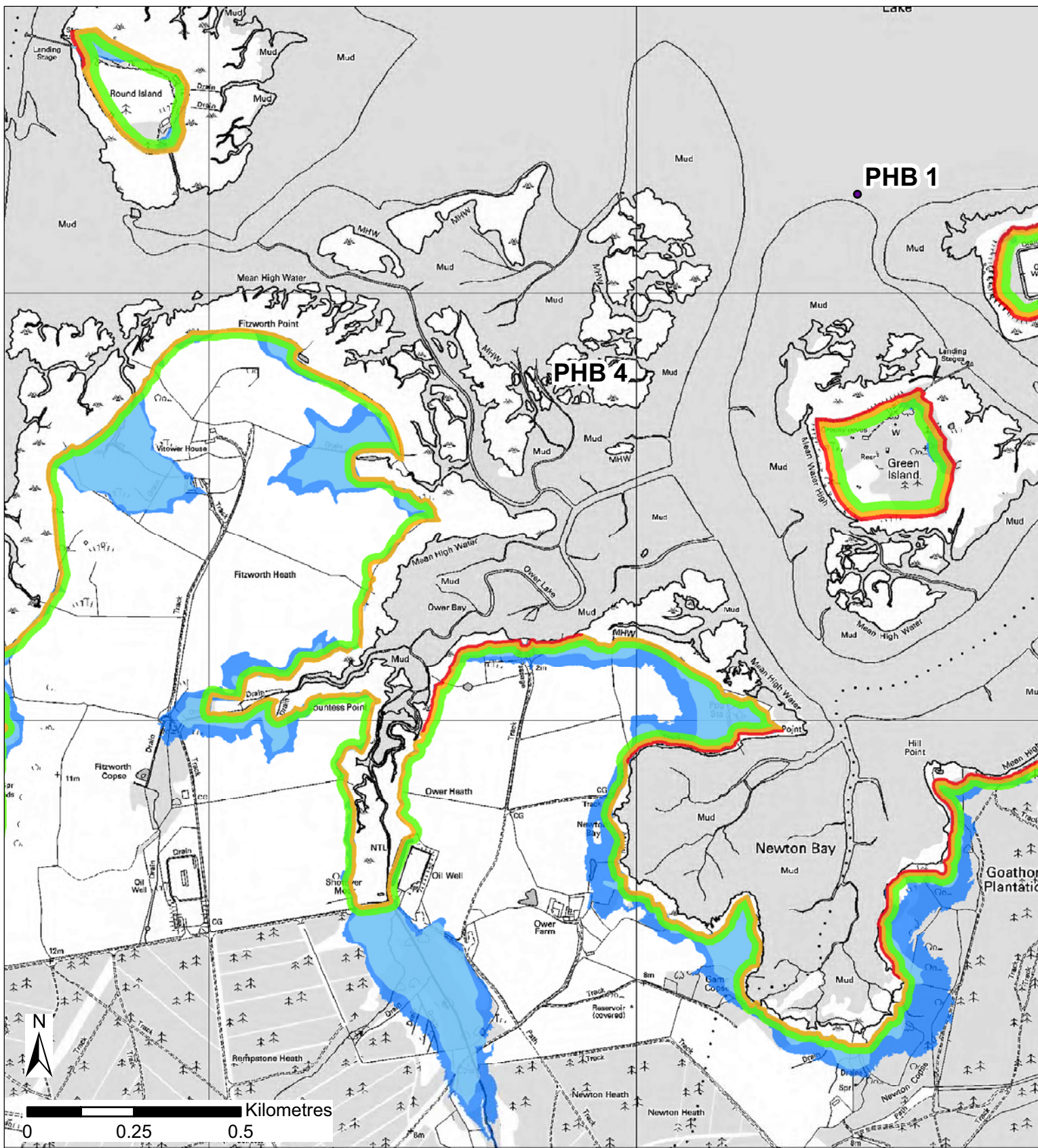




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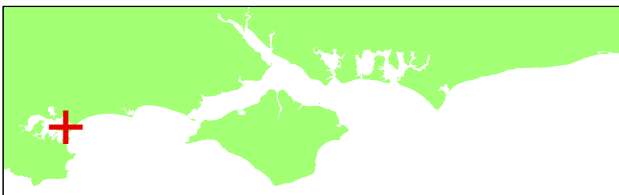
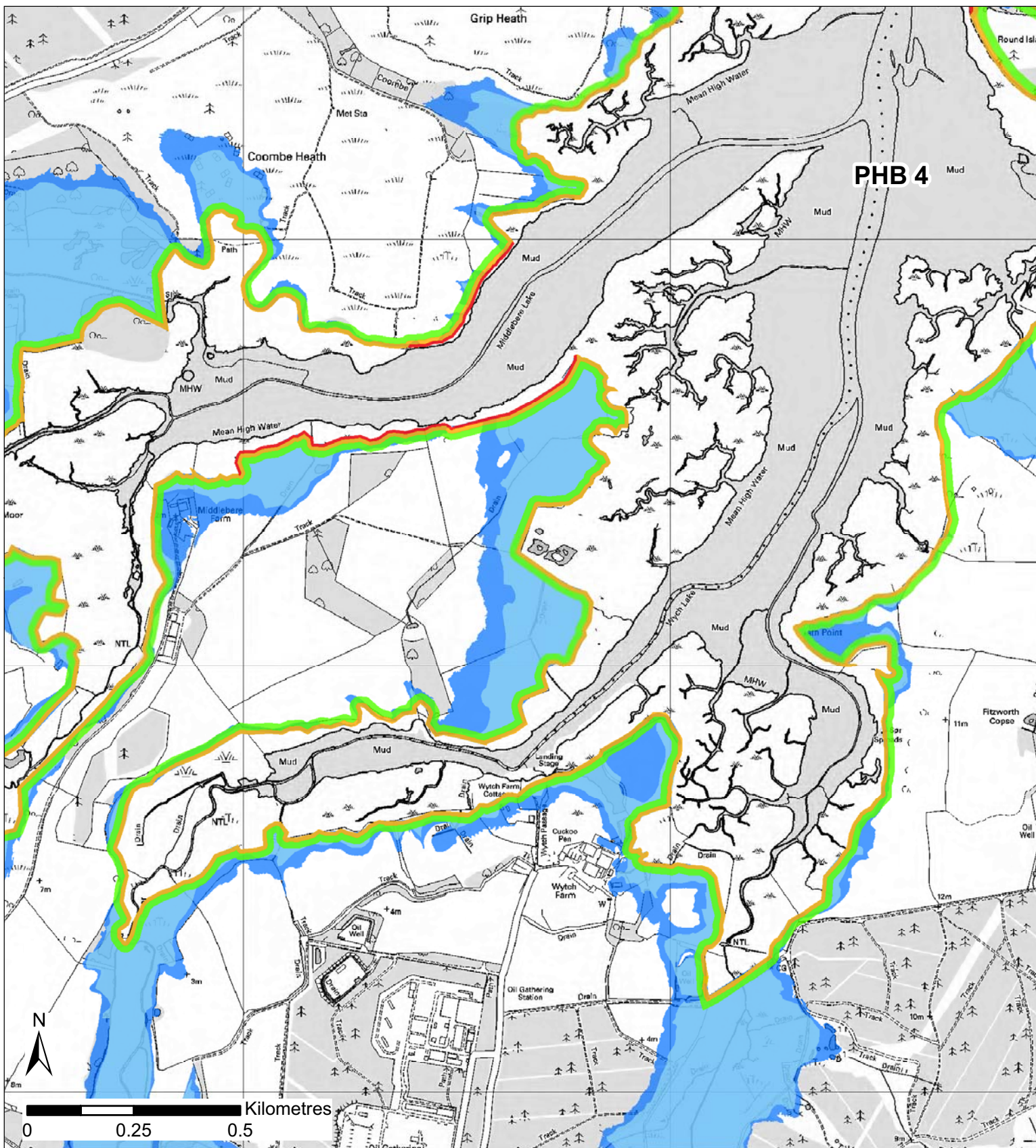




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■ ■ ■ Policy Unit Boundary

Indicative erosion zone up to 2025

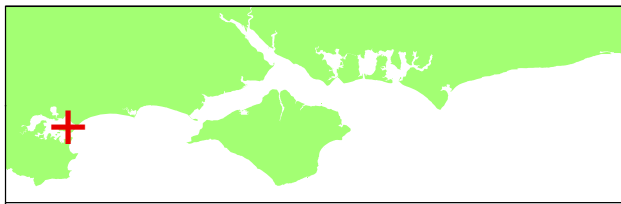
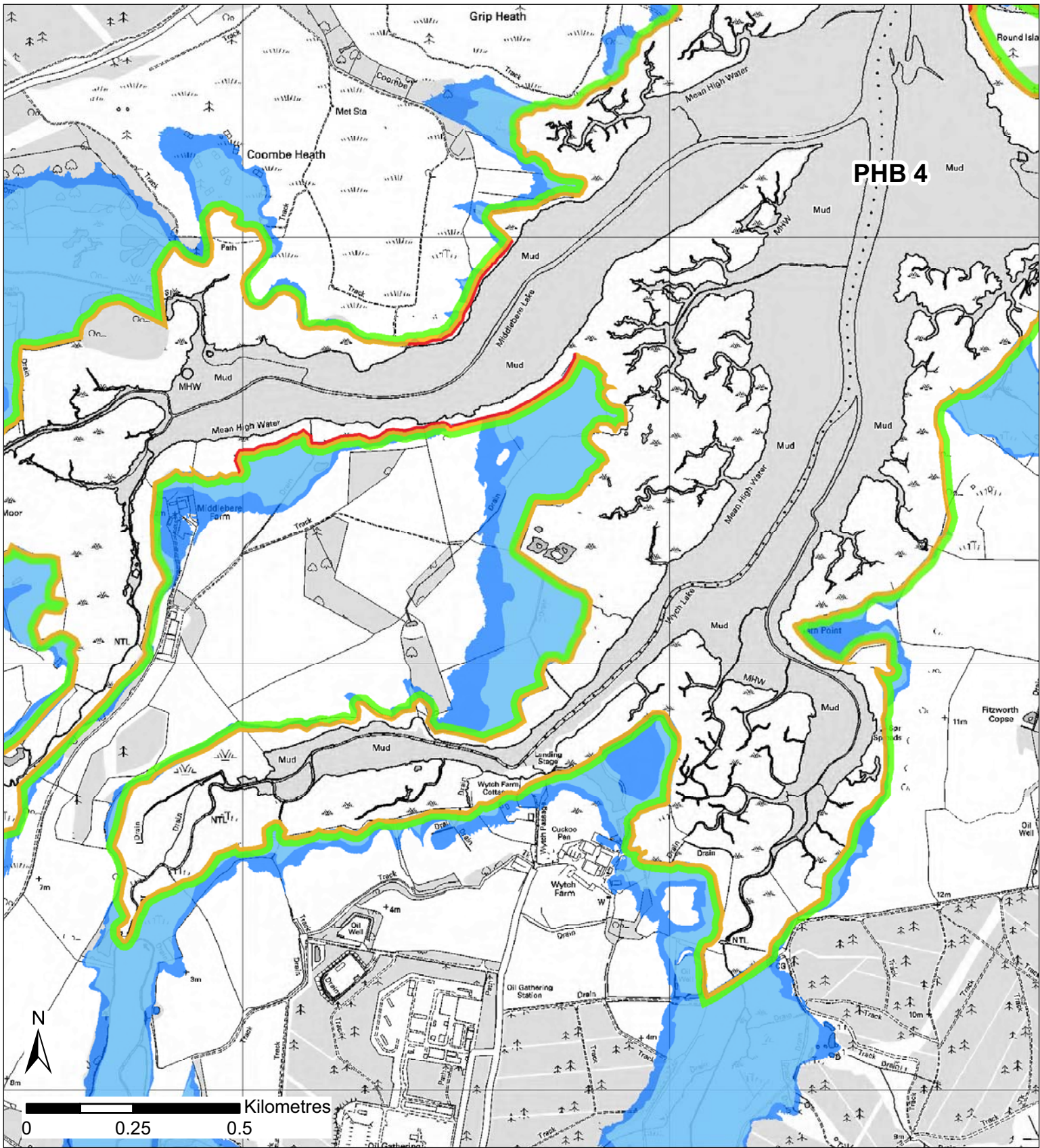
Indicative erosion zone up to 2055

Indicative erosion zone up to 2105

2008 (1:200 yr) Flood Zone 3 © Environment Agency

2102 (1:200 yr) Indicative Floodplain with sea level rise

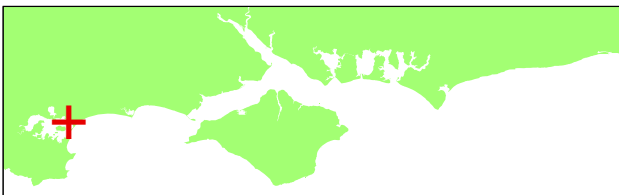
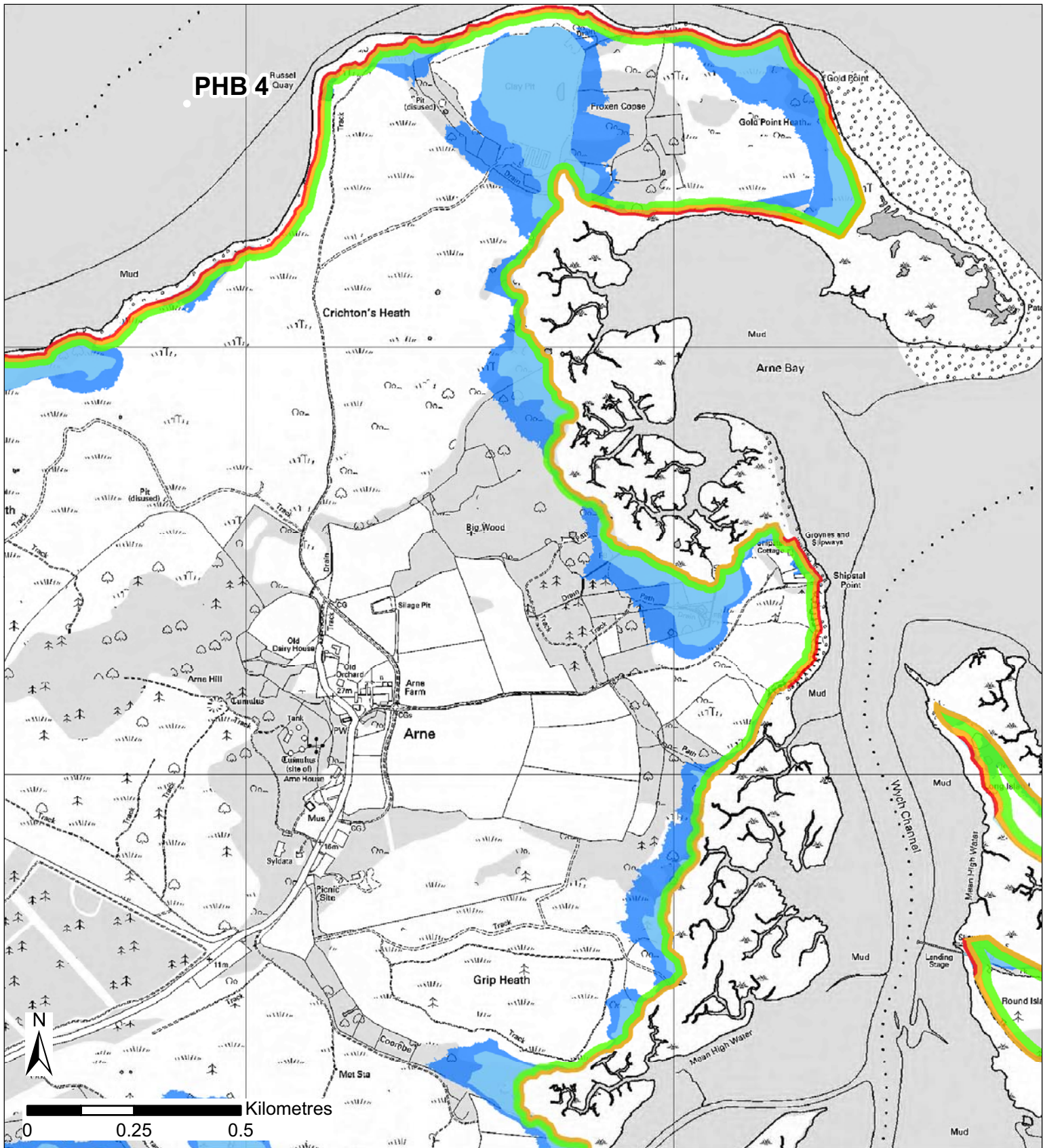




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■ ■ ■ Policy Unit Boundary

■ Indicative erosion zone up to 2025

■ Indicative erosion zone up to 2055

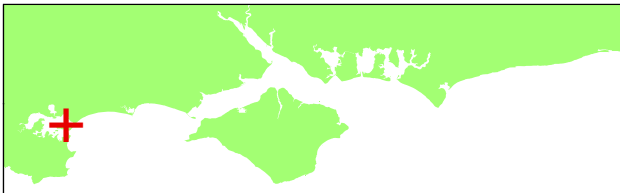
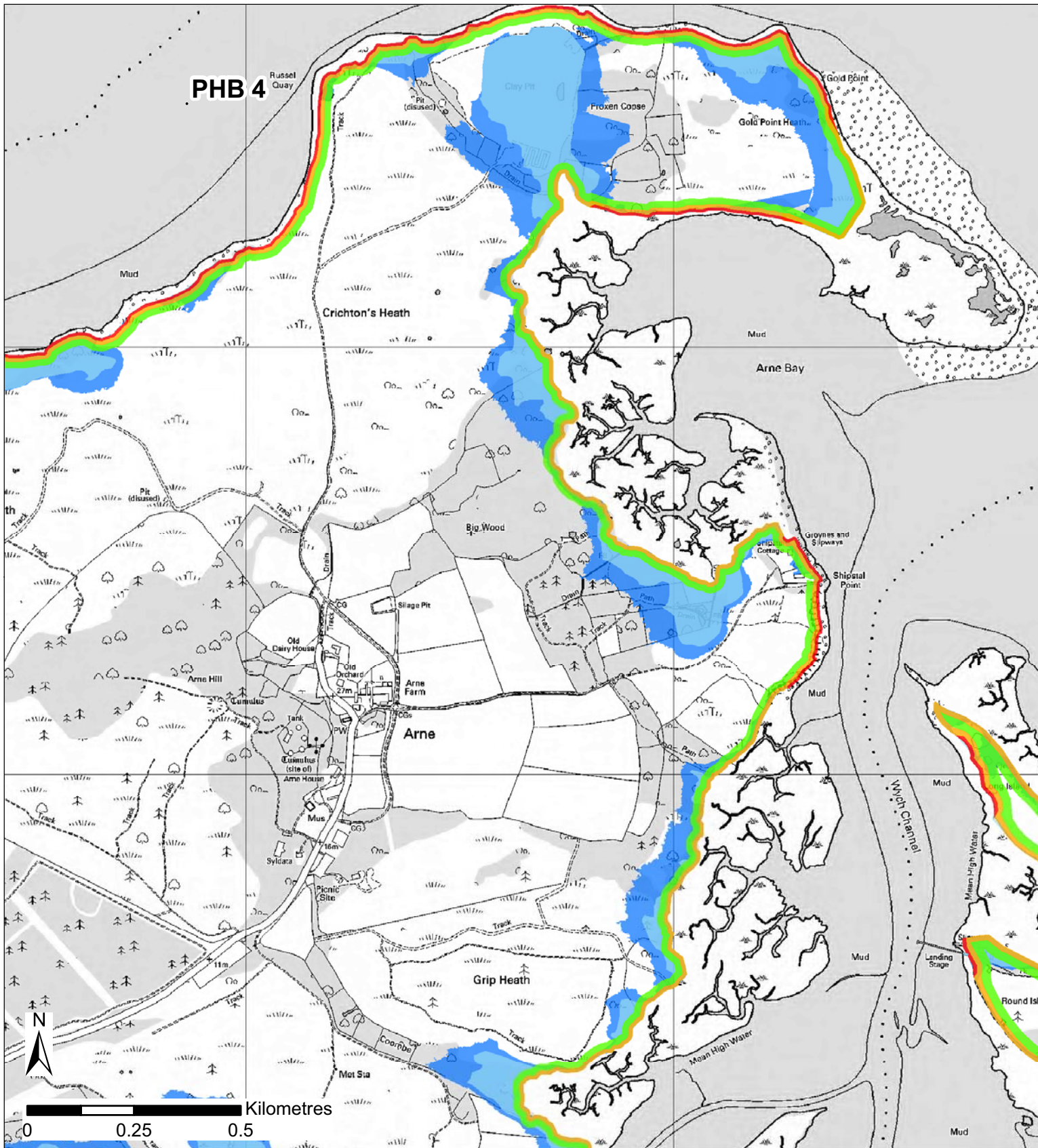
■ Indicative erosion zone up to 2105

■ 2008 (1:200 yr) Flood Zone 3 © Environment Agency

■ 2102 (1:200 yr) Indicative Floodplain with sea level rise



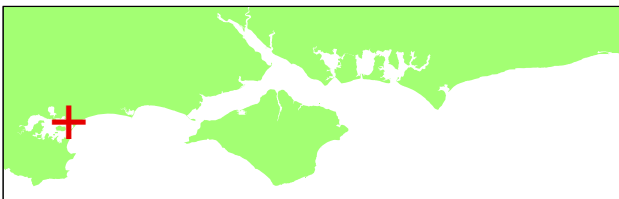
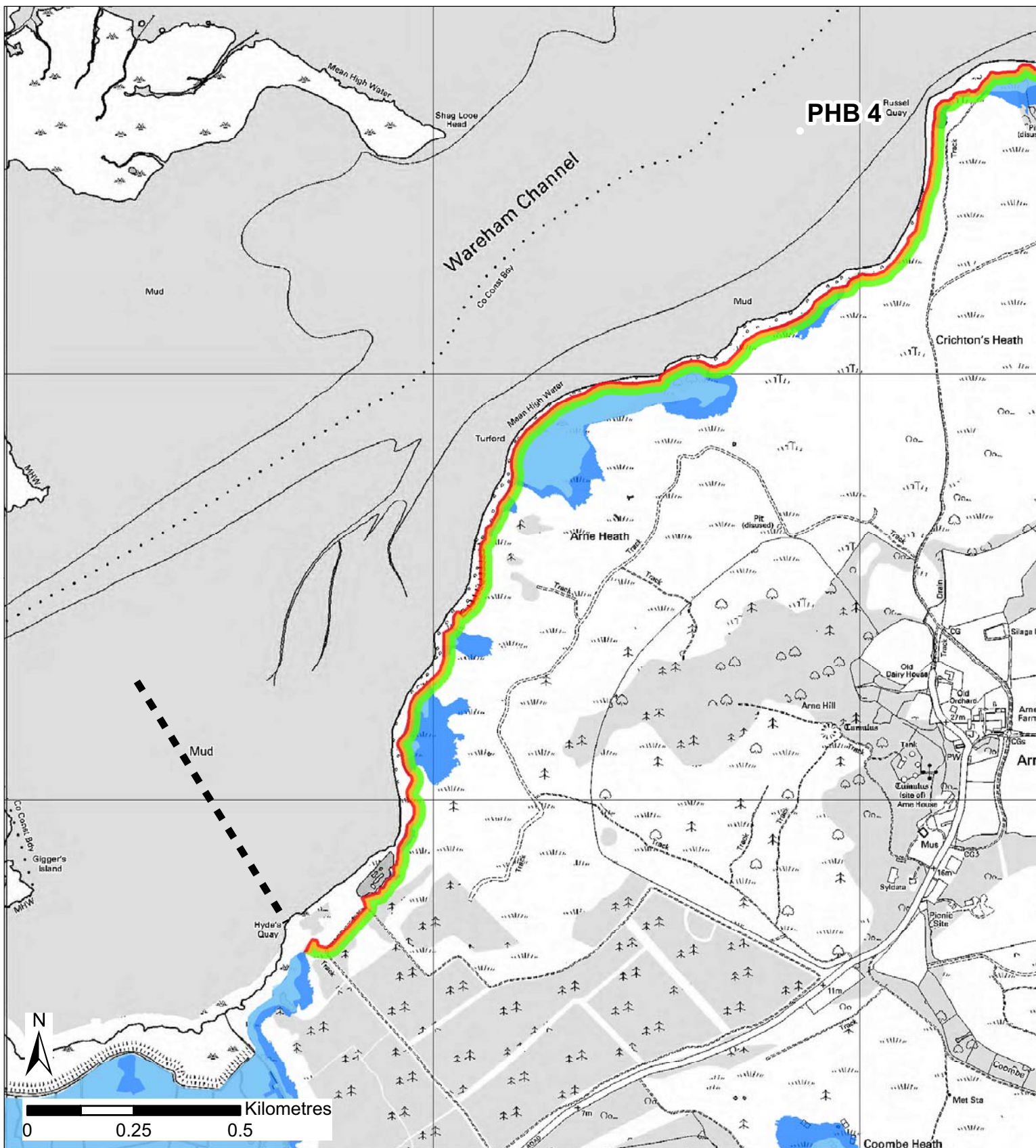
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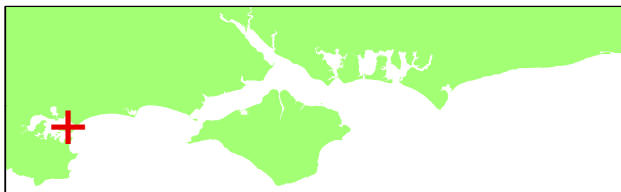
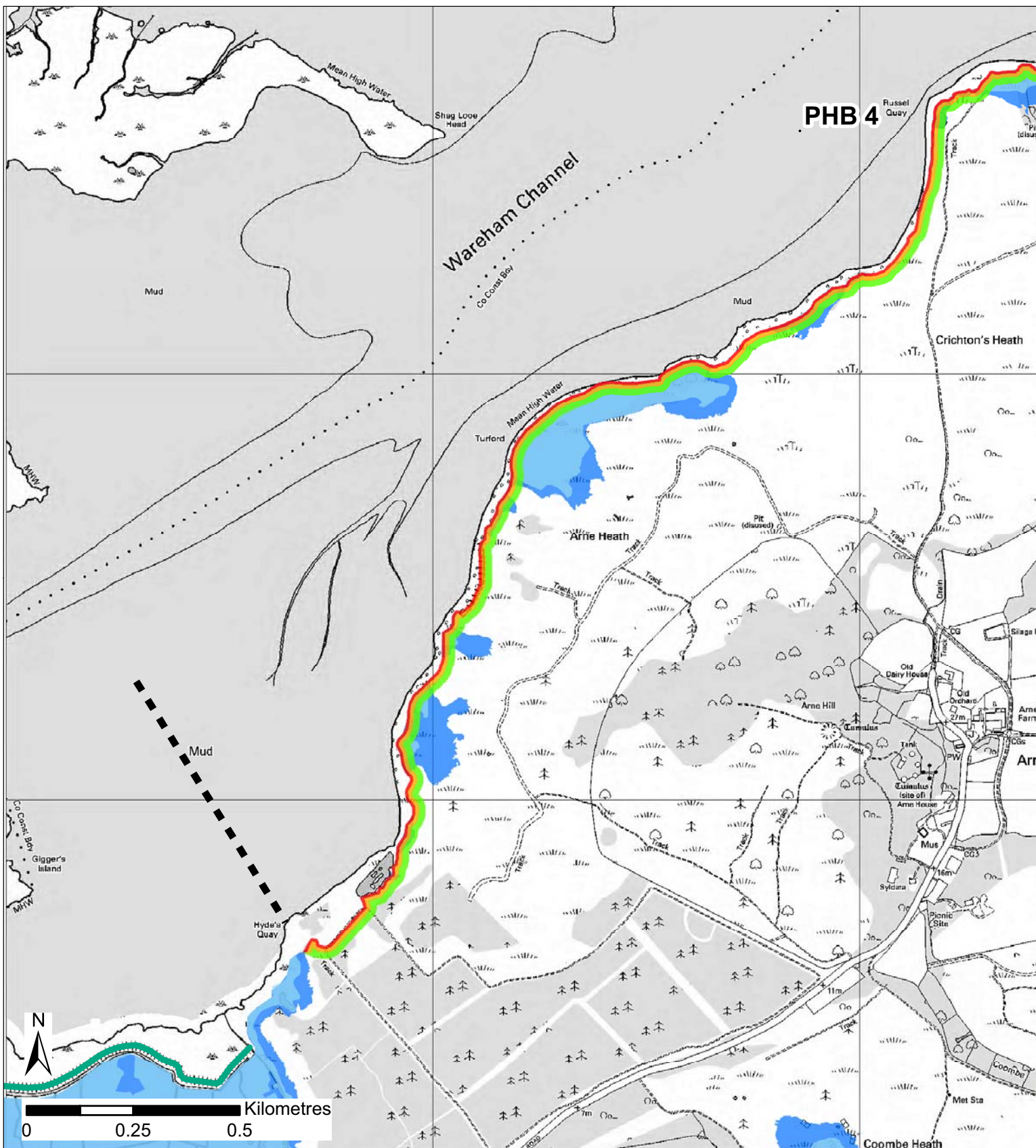




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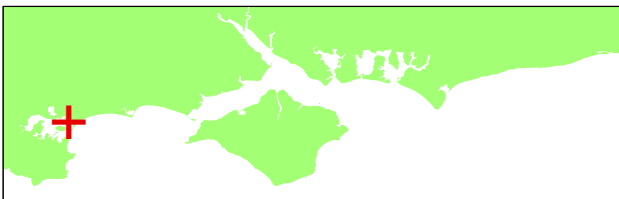
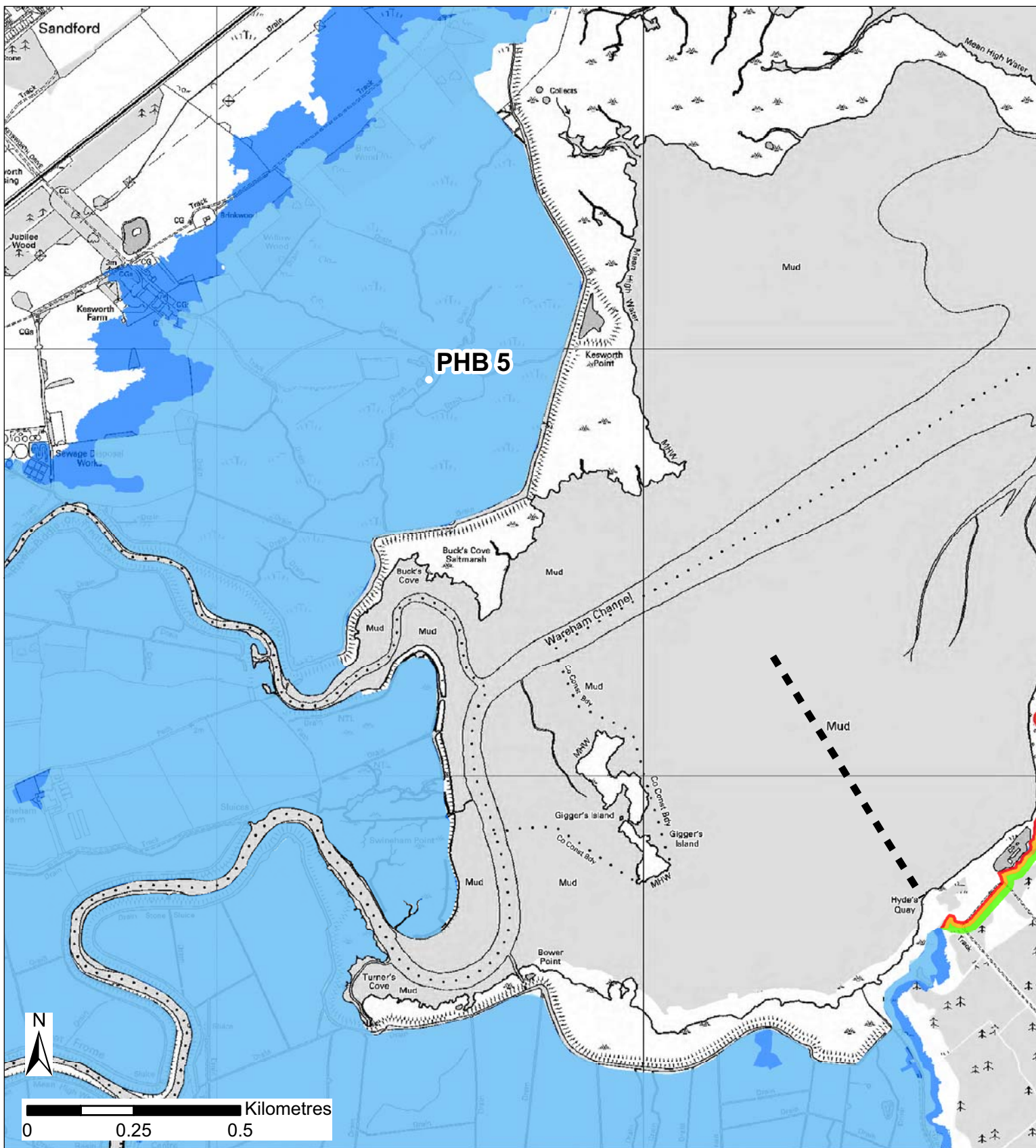




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Policy Unit Boundary

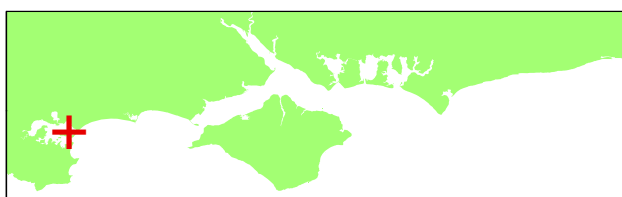
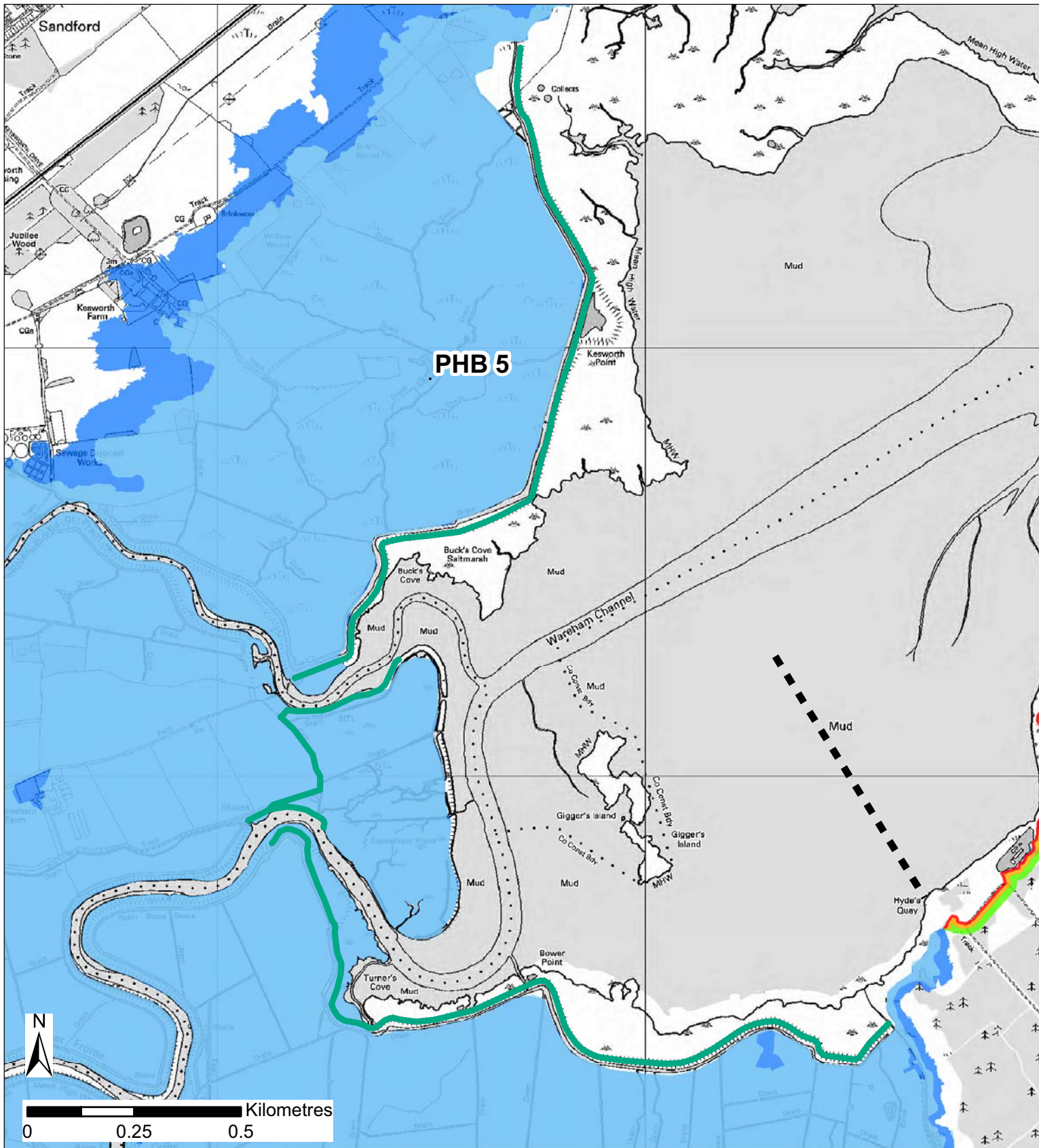
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2008 (1:200 yr) Flood Zone 3 © Environment Agency

2102 (1:200 yr) Indicative Floodplain with sea level rise



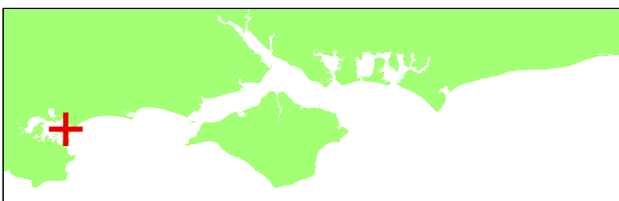
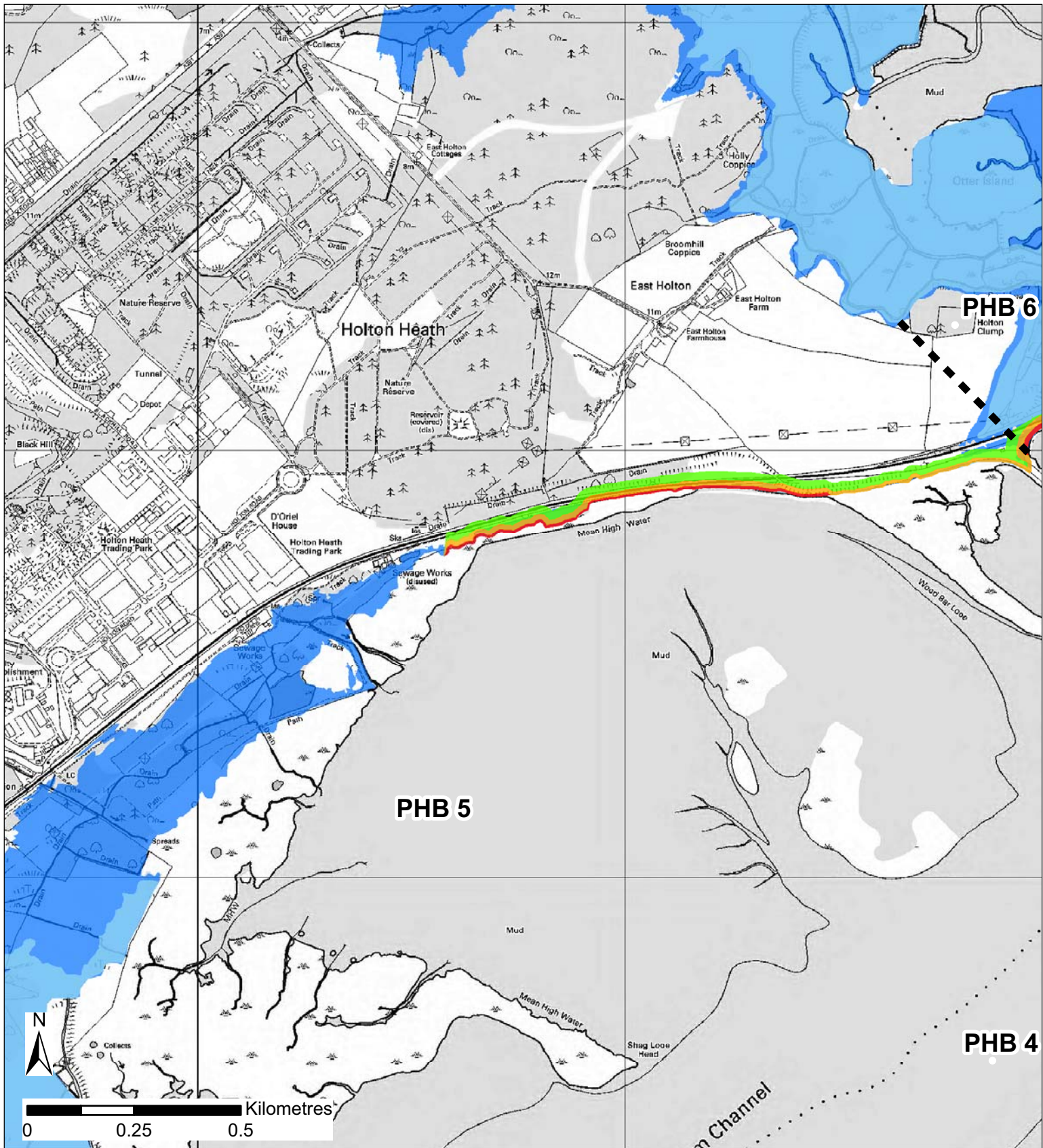
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--- Policy Unit Boundary

Red box: Indicative erosion zone up to 2025

Orange box: Indicative erosion zone up to 2055

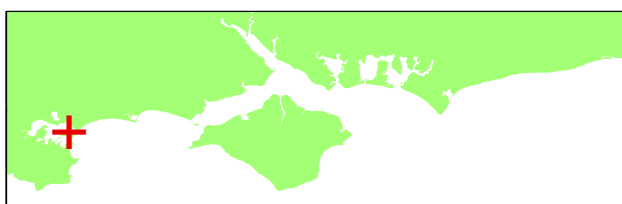
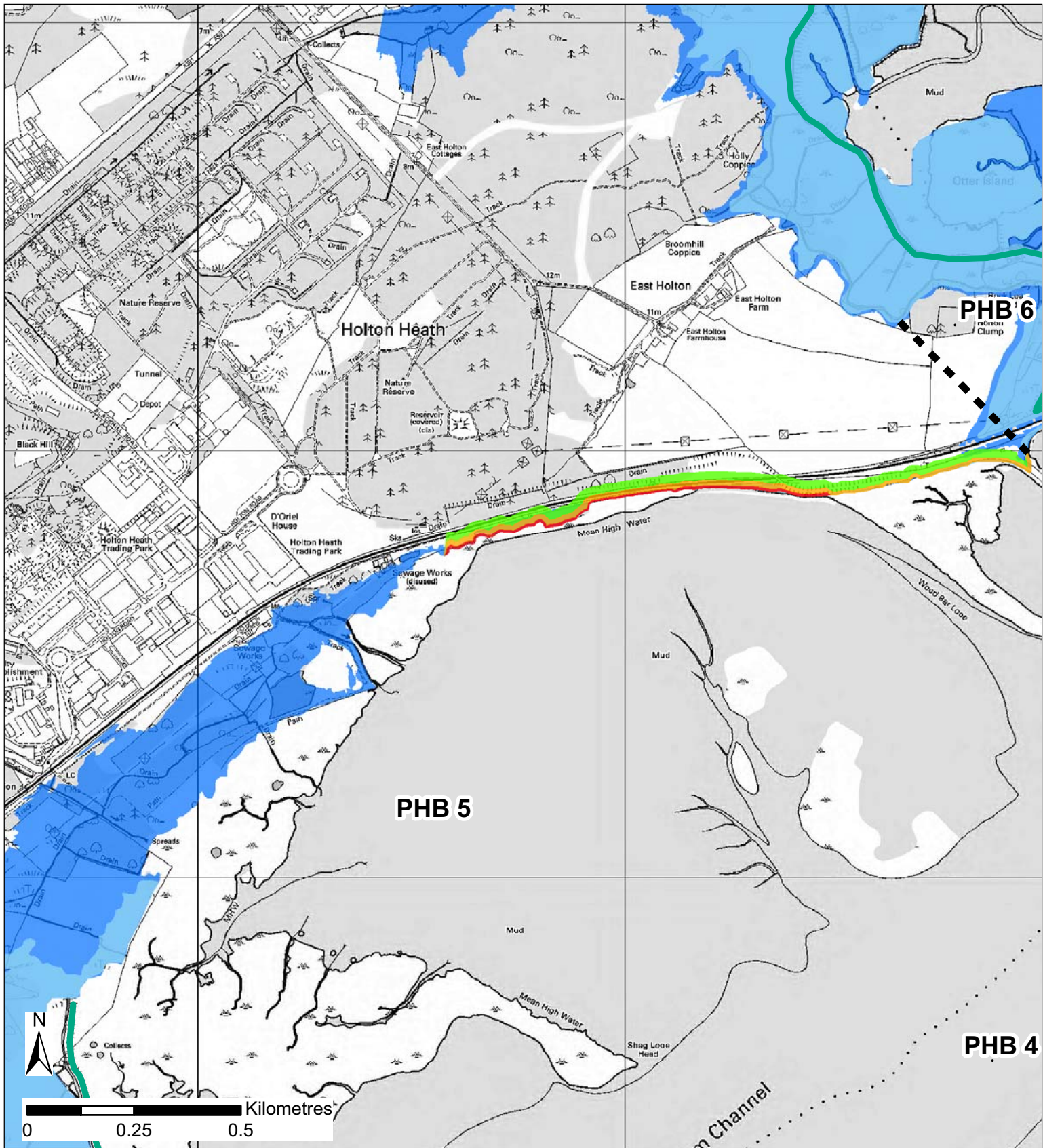
Green box: Indicative erosion zone up to 2105

Light blue box: 2008 (1:200 yr) Flood Zone 3 © Environment Agency

Dark blue box: 2102 (1:200 yr) Indicative Floodplain with sea level rise



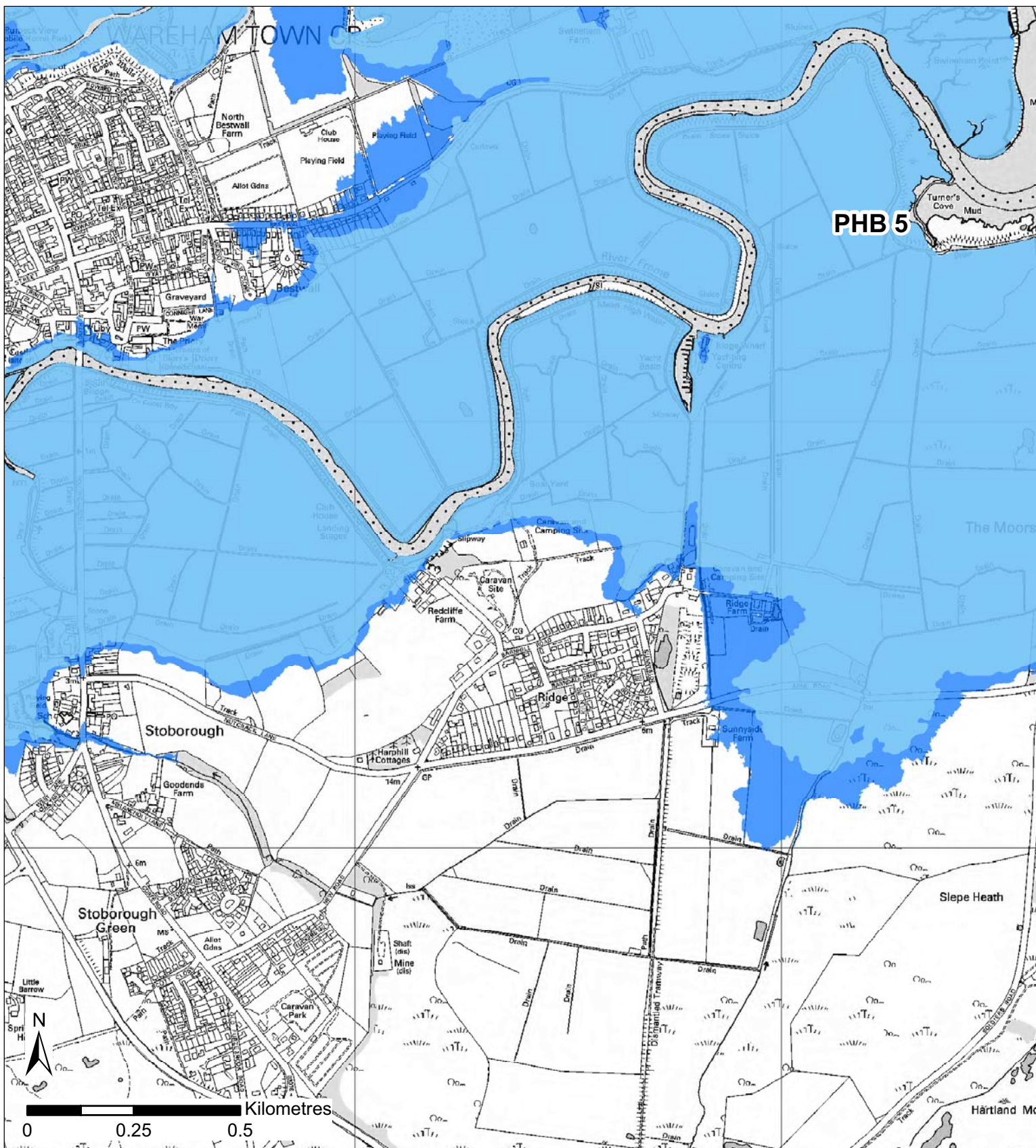
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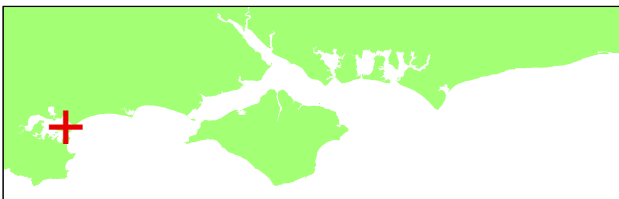
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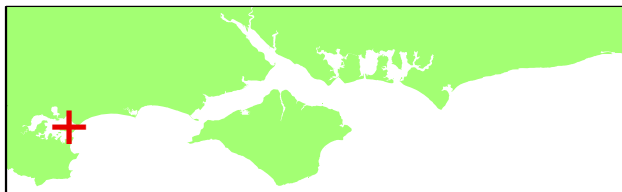
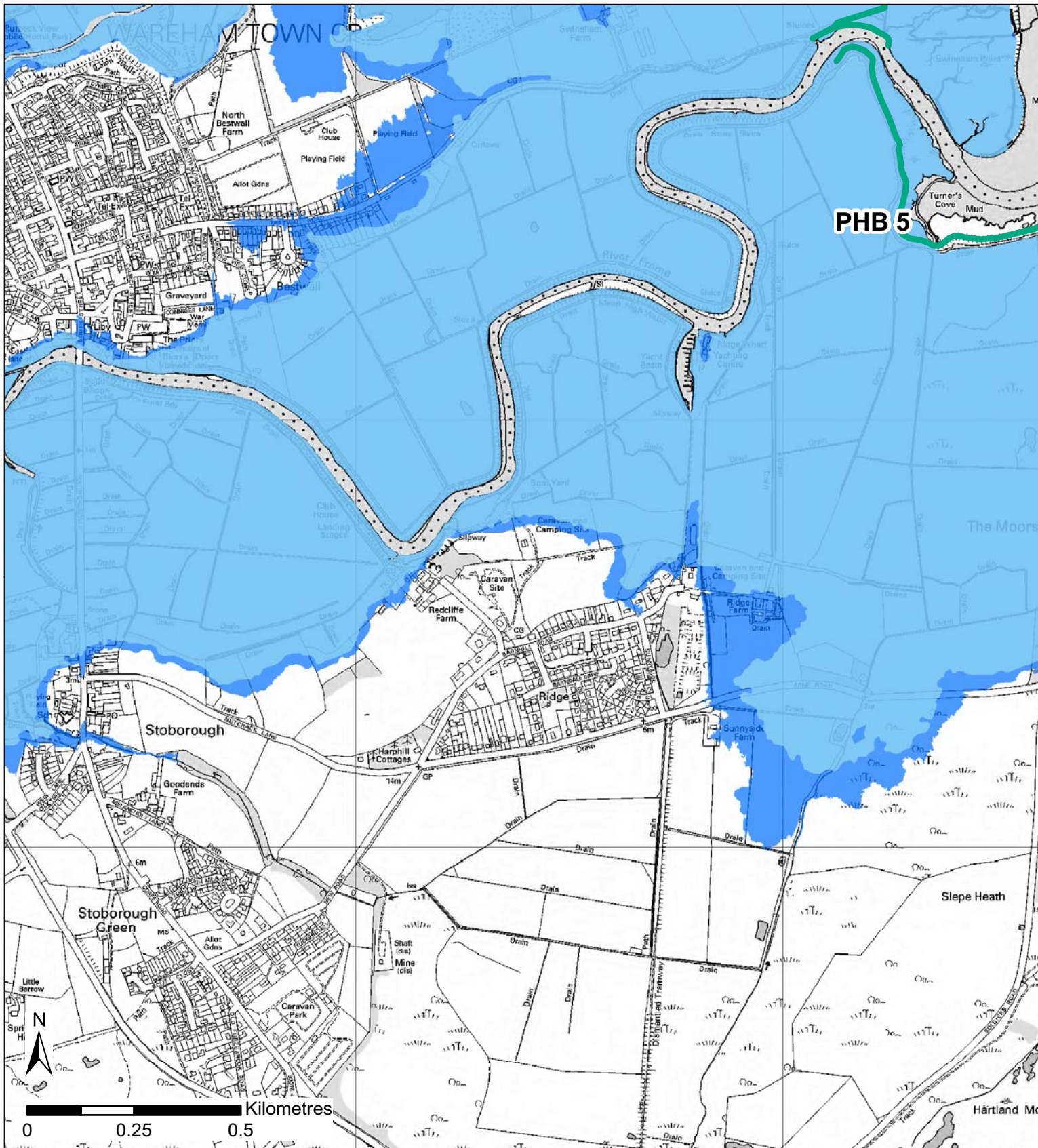
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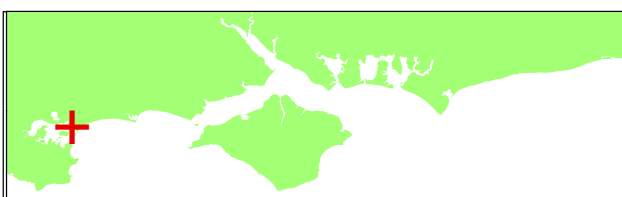
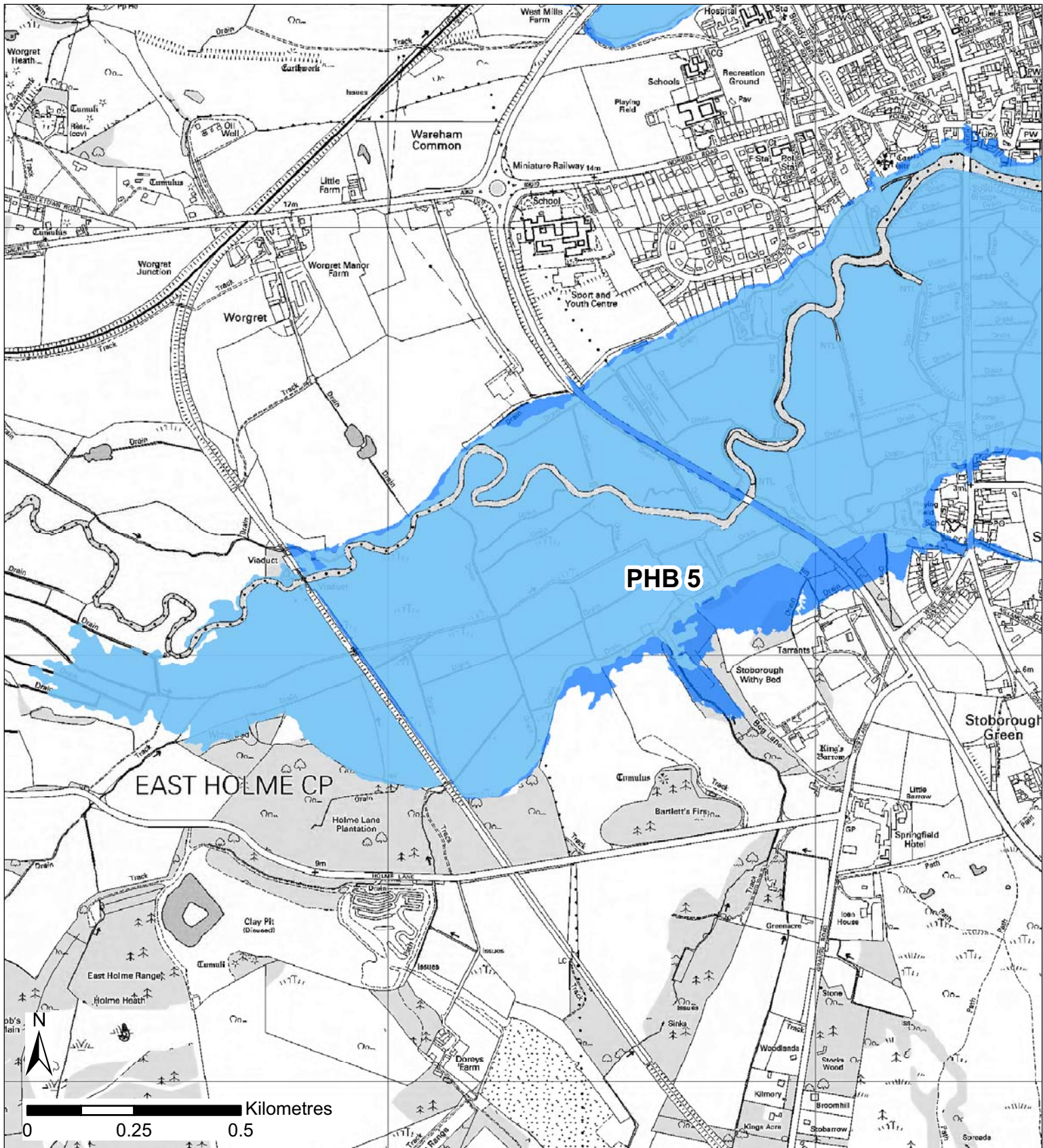




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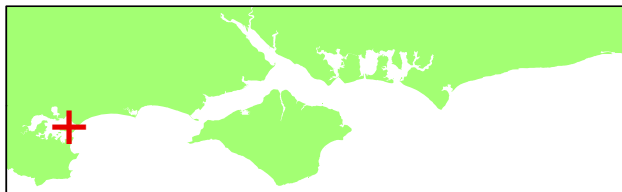
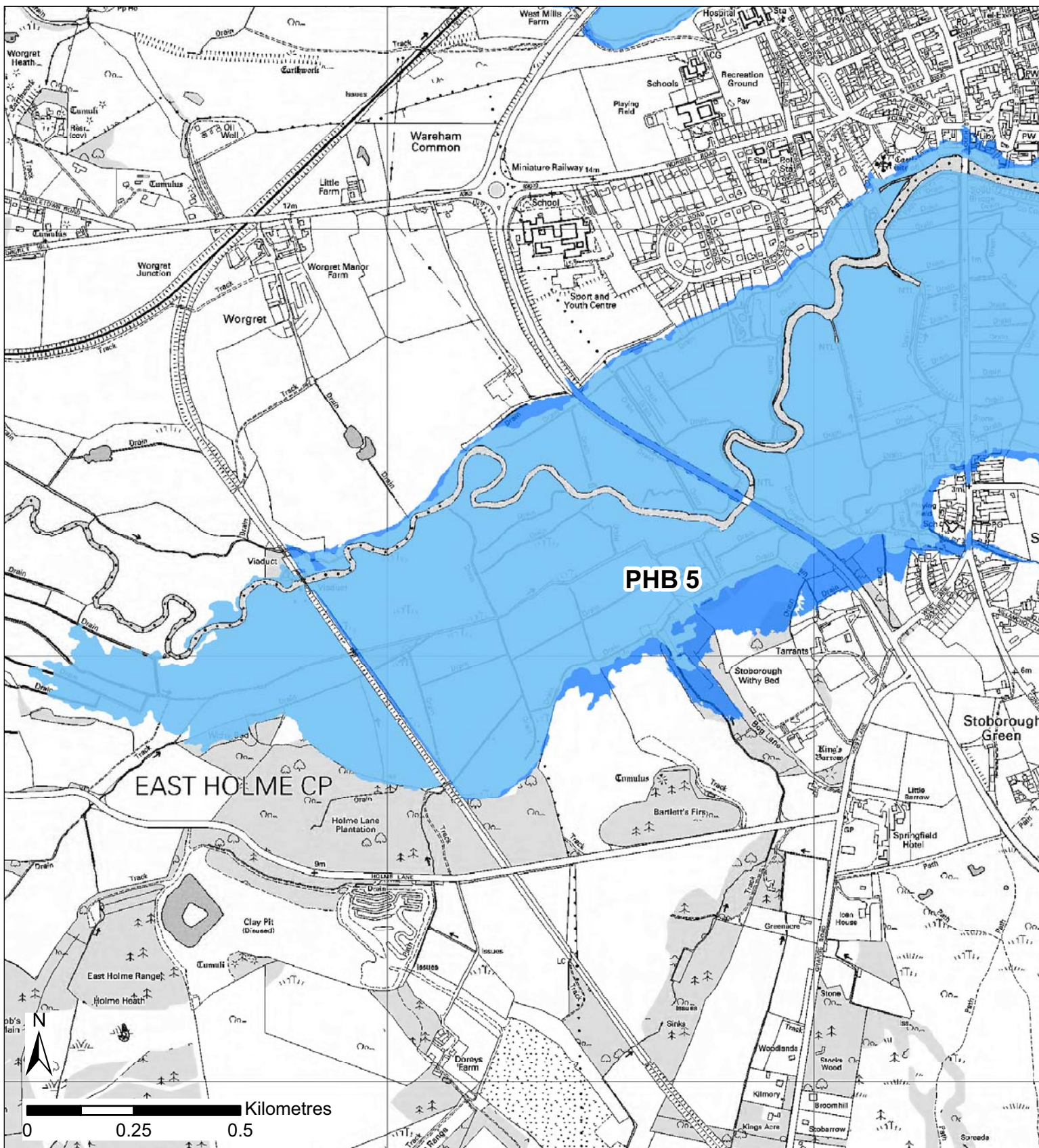
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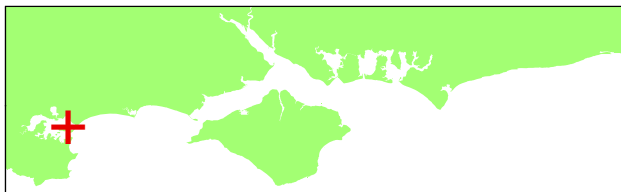
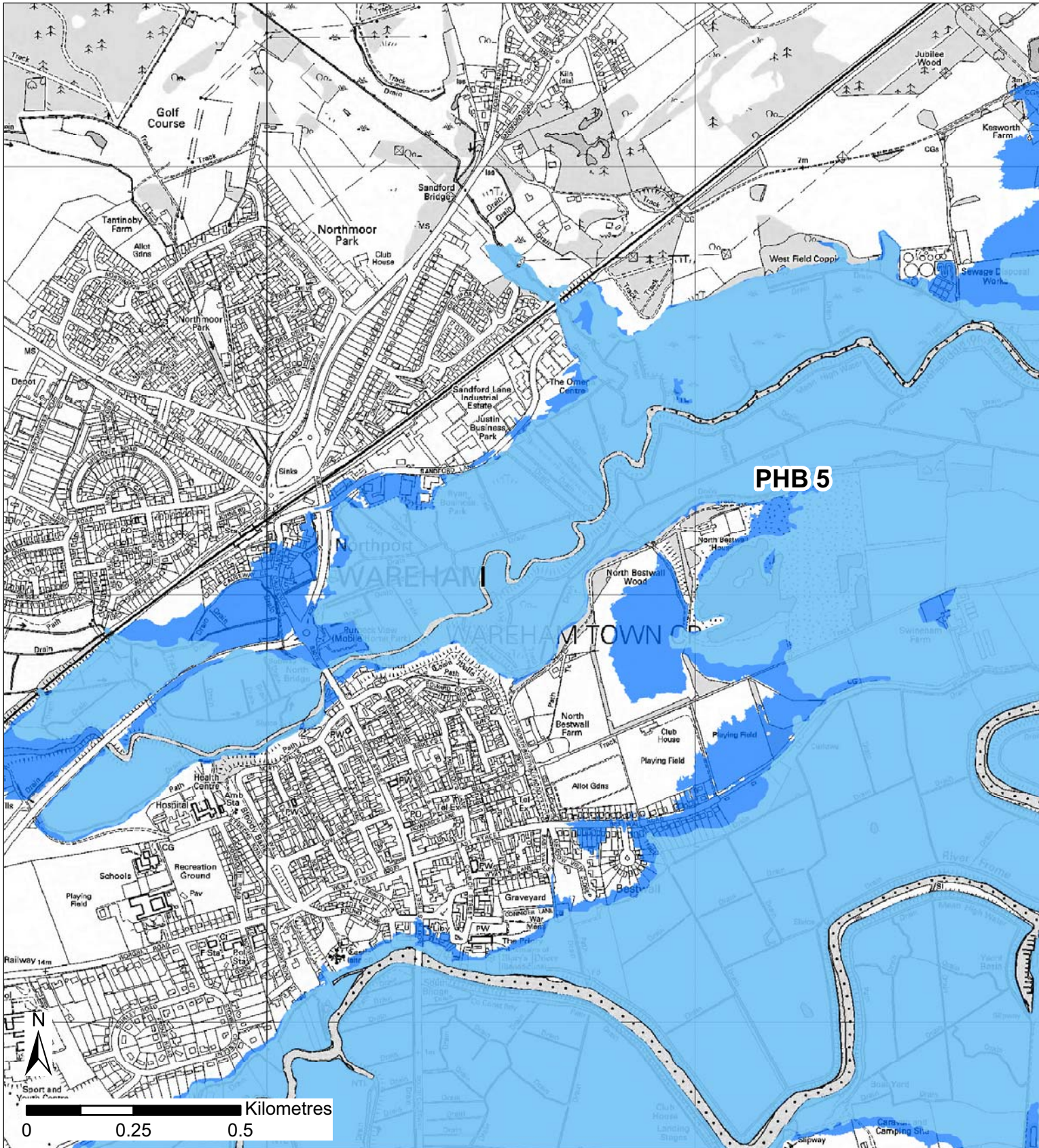




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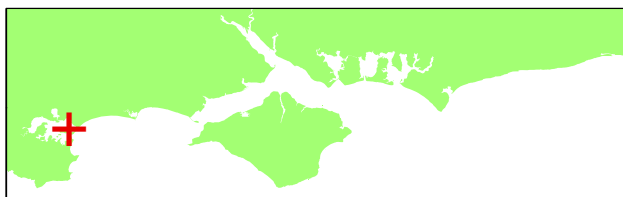
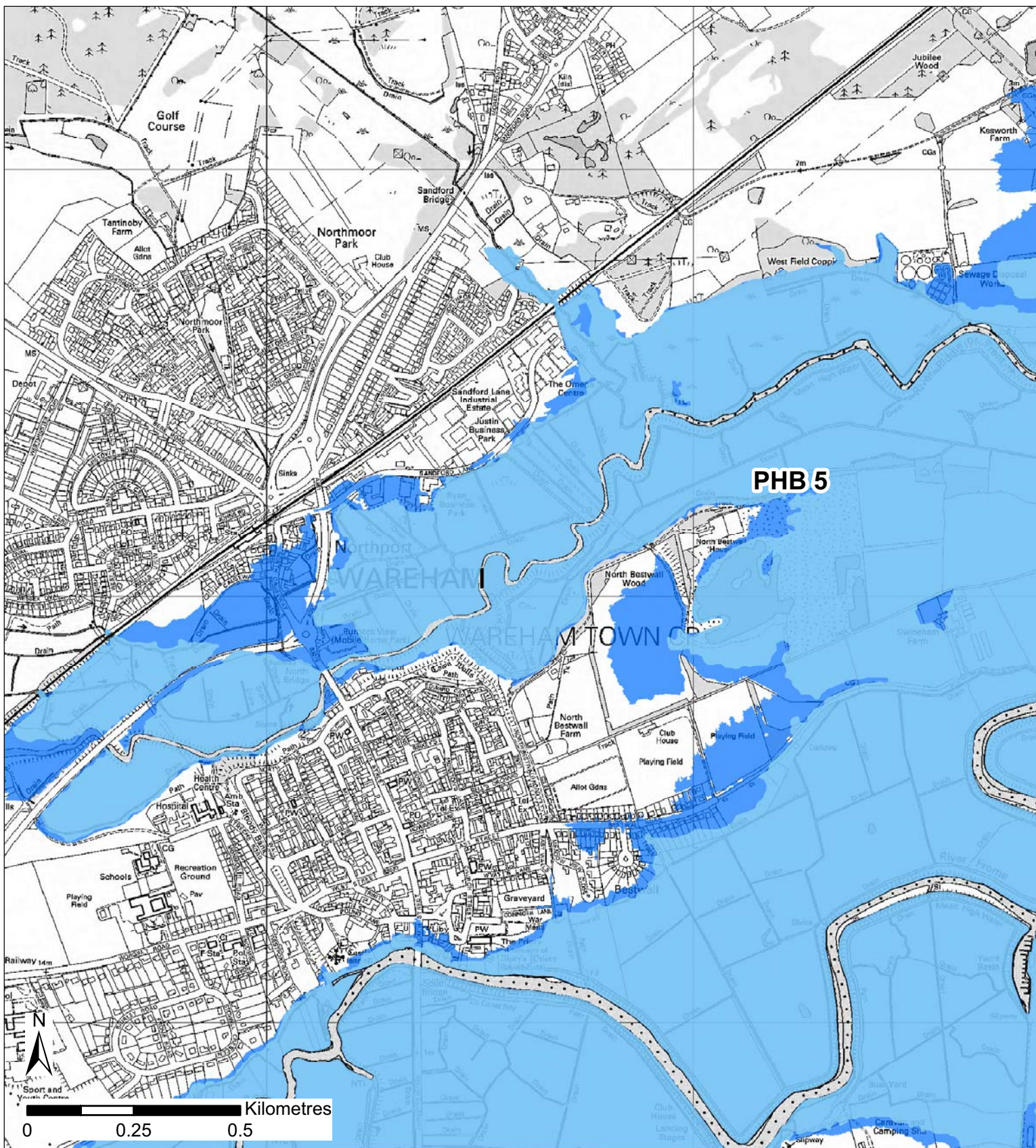




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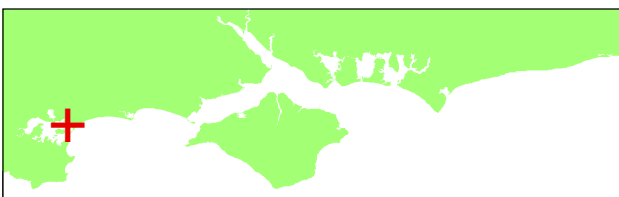
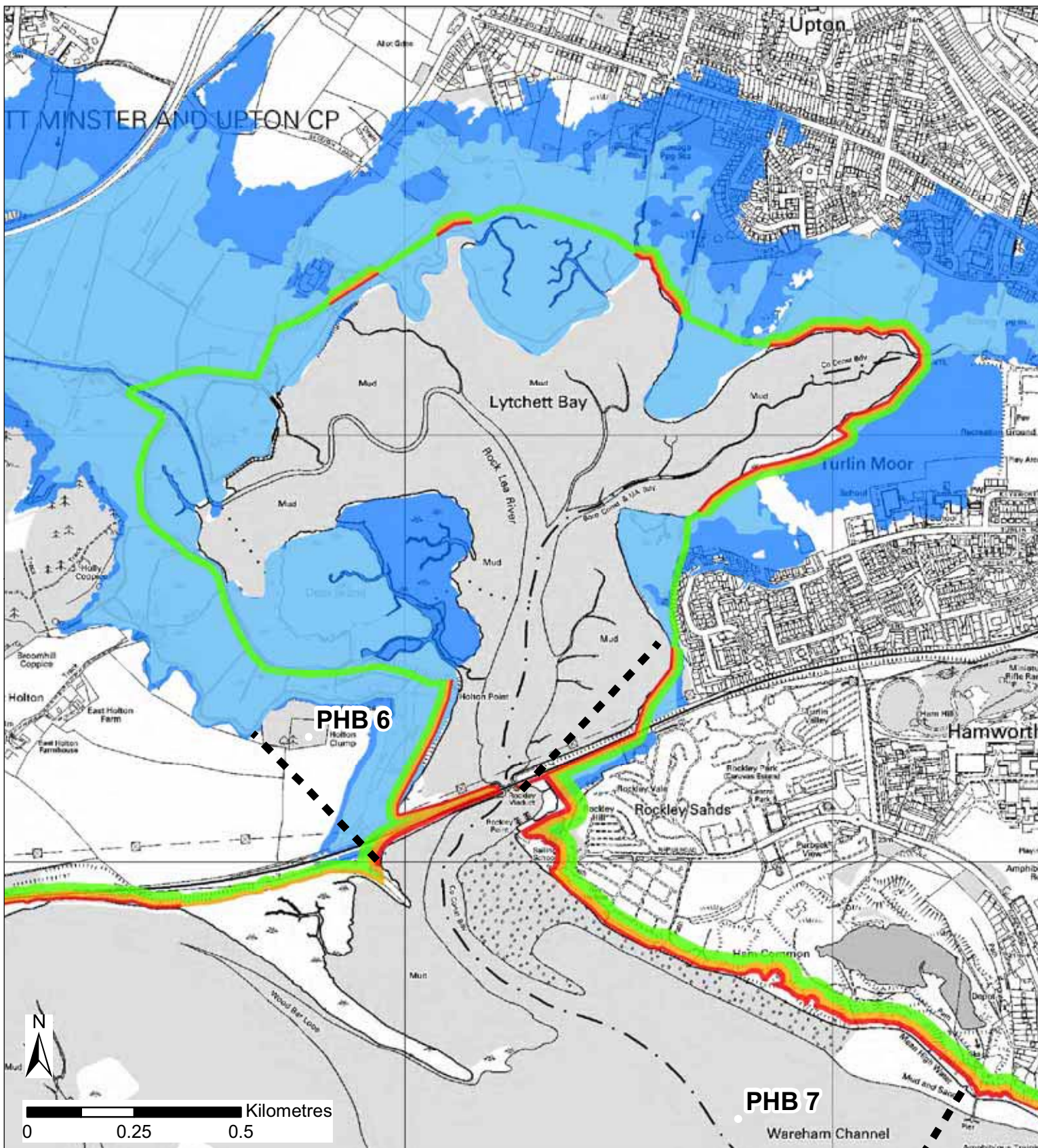




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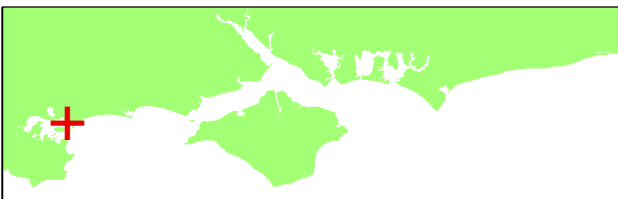
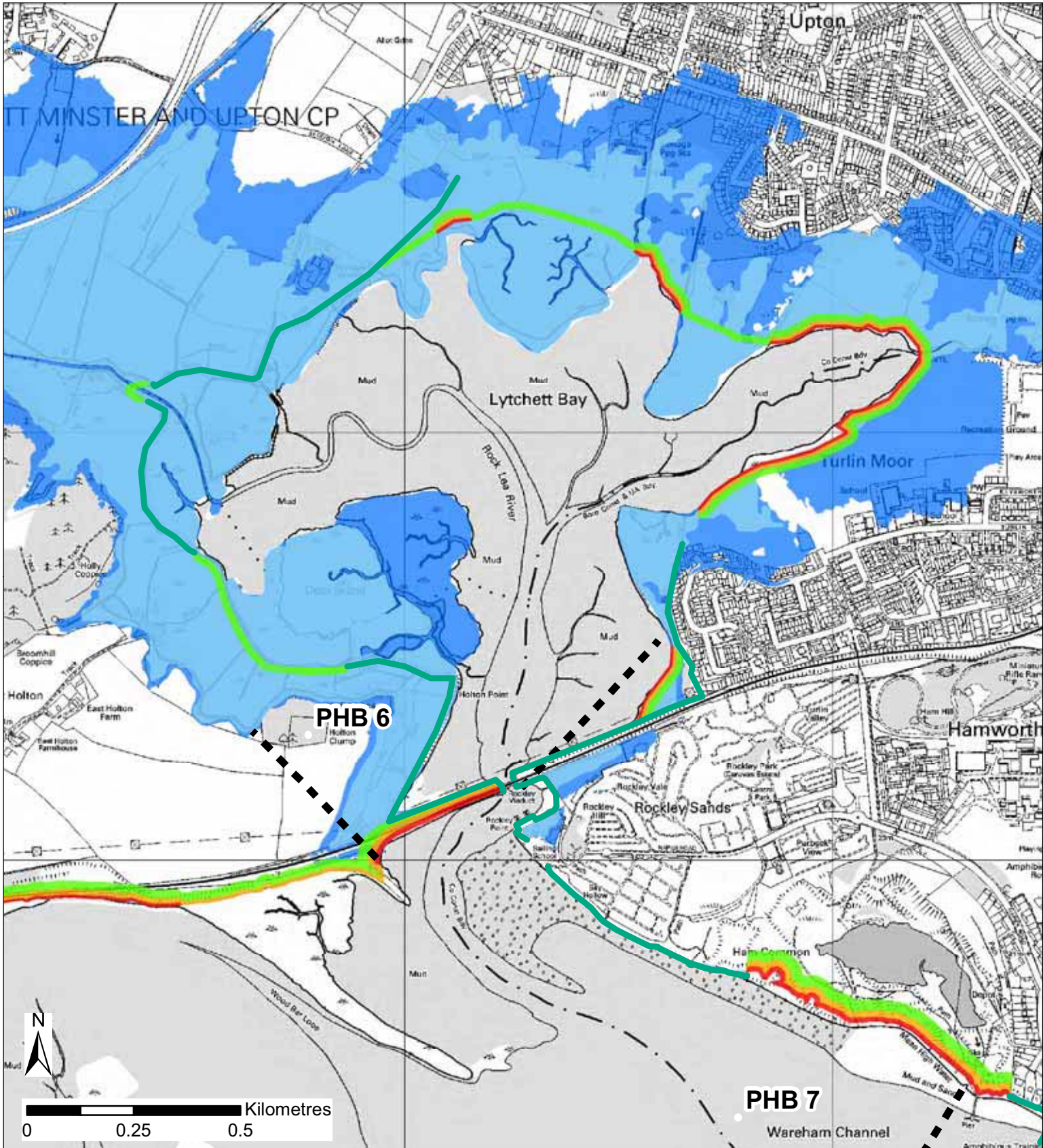




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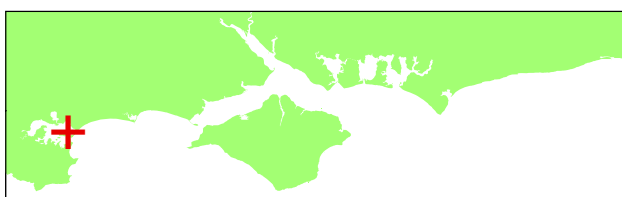
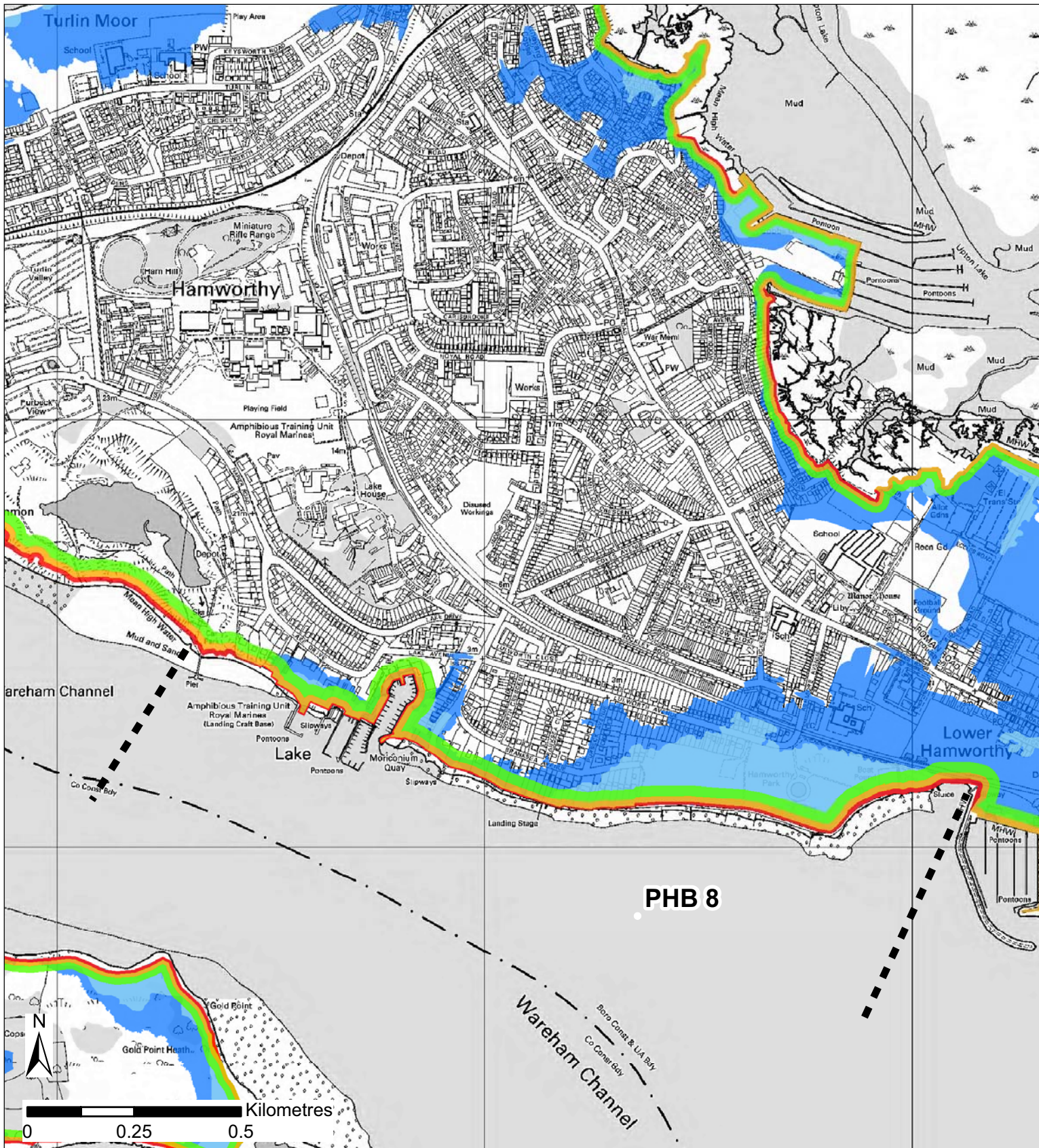




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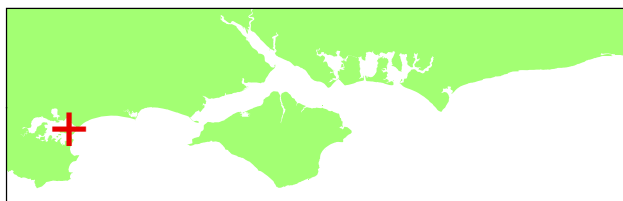
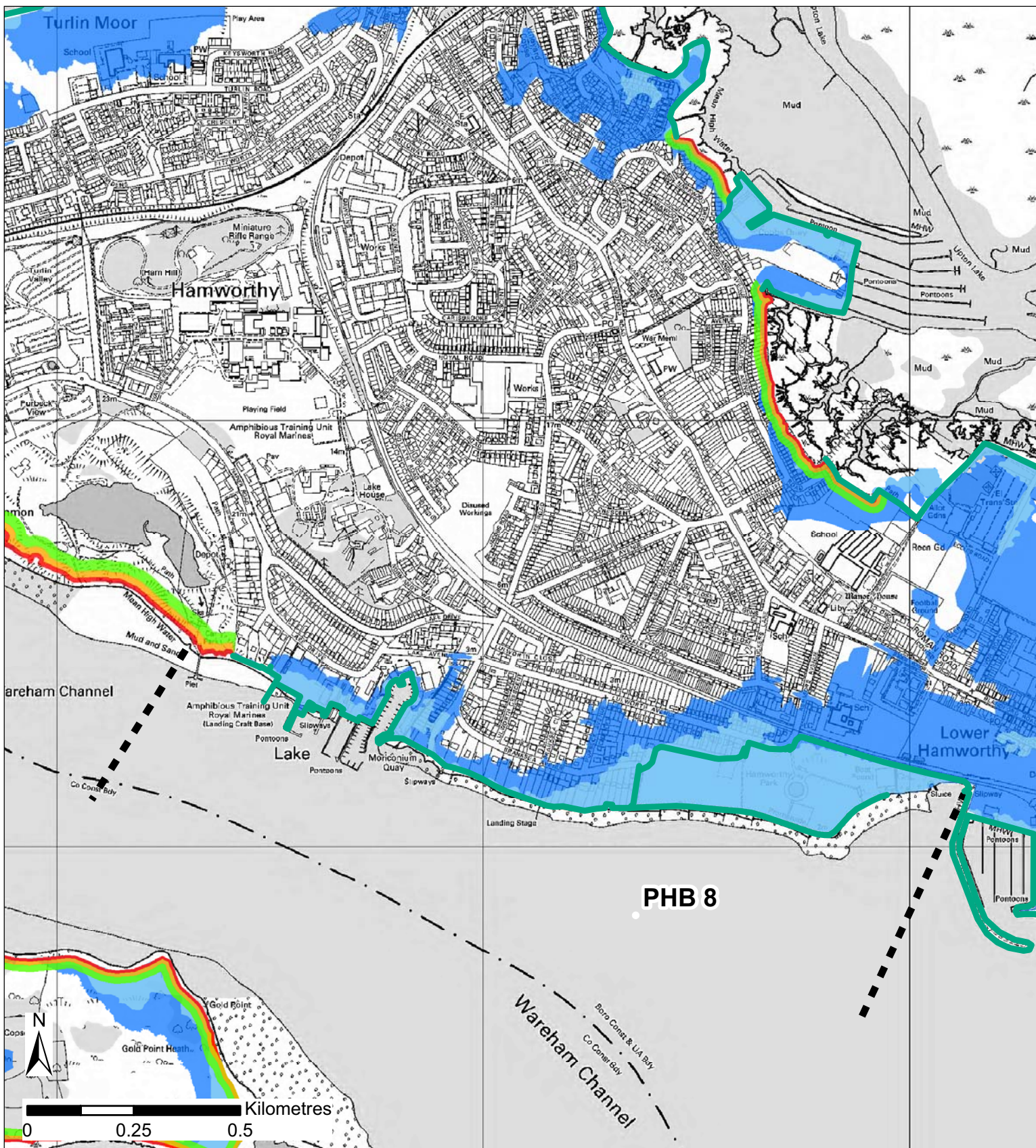




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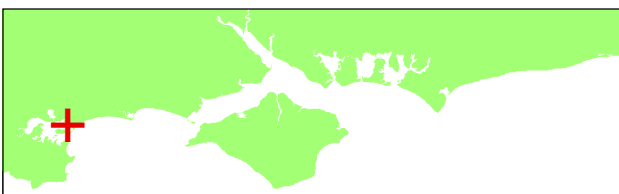
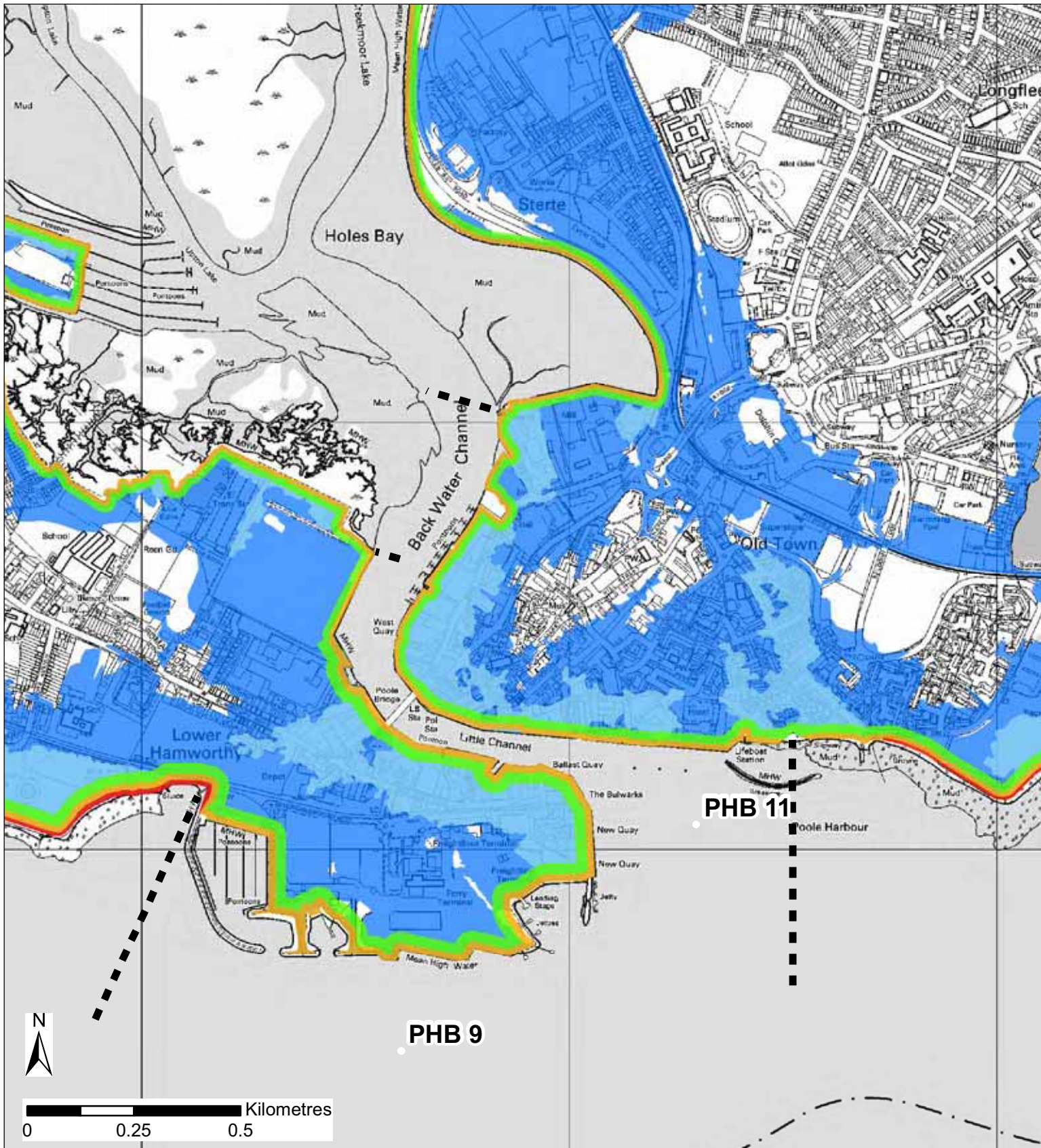




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--- Policy Unit Boundary

Red box: Indicative erosion zone up to 2025

Orange box: Indicative erosion zone up to 2055

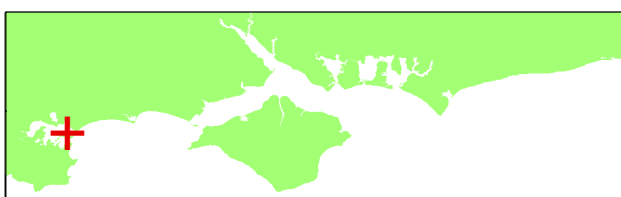
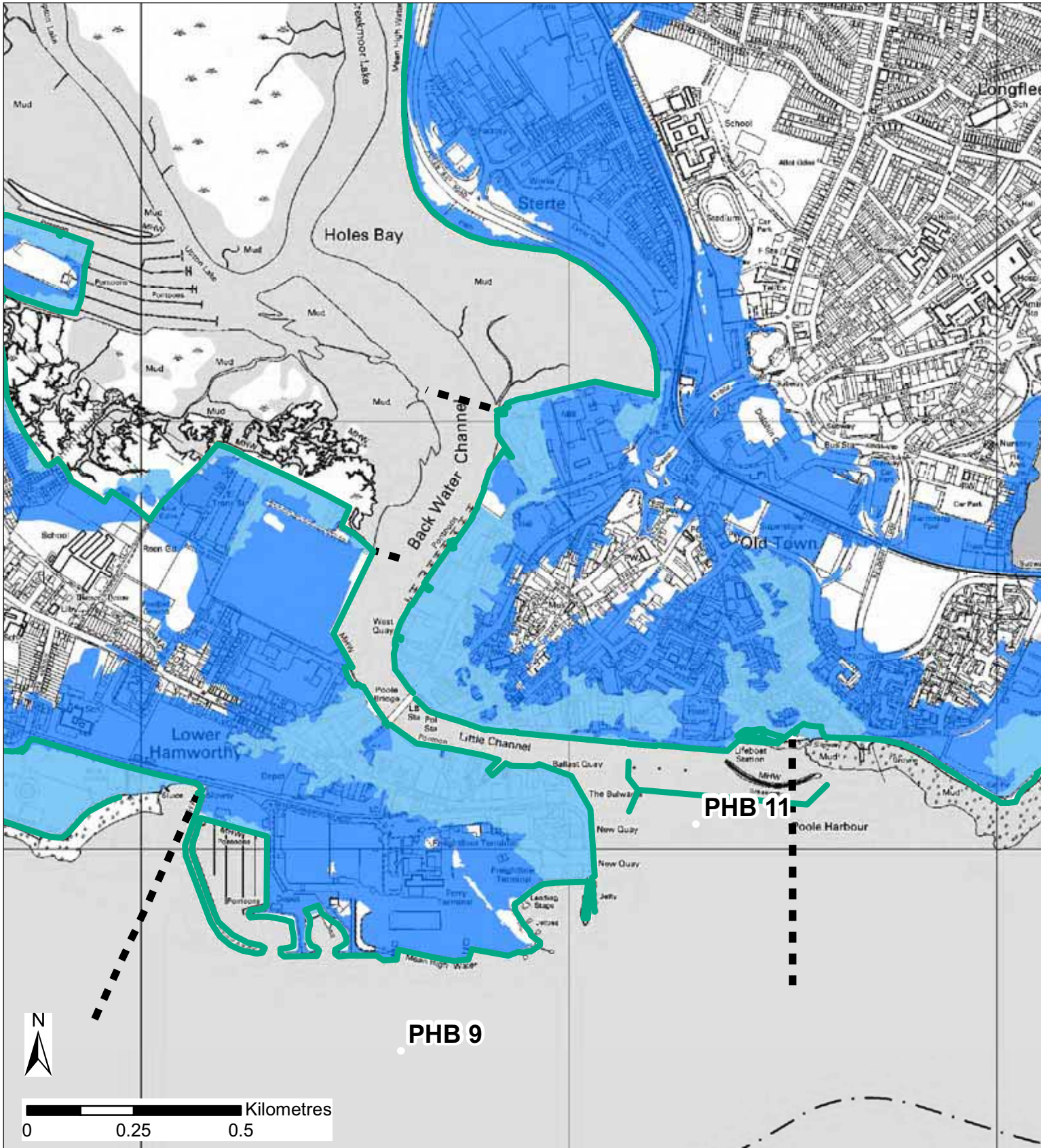
Green box: Indicative erosion zone up to 2105

Light blue box: 2008 (1:200 yr) Flood Zone 3 © Environment Agency

Dark blue box: 2102 (1:200 yr) Indicative Floodplain with sea level rise



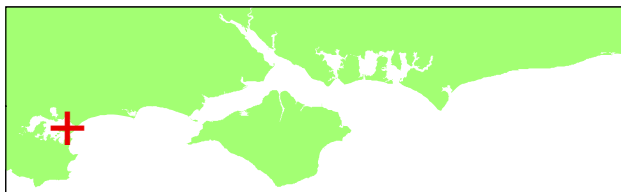
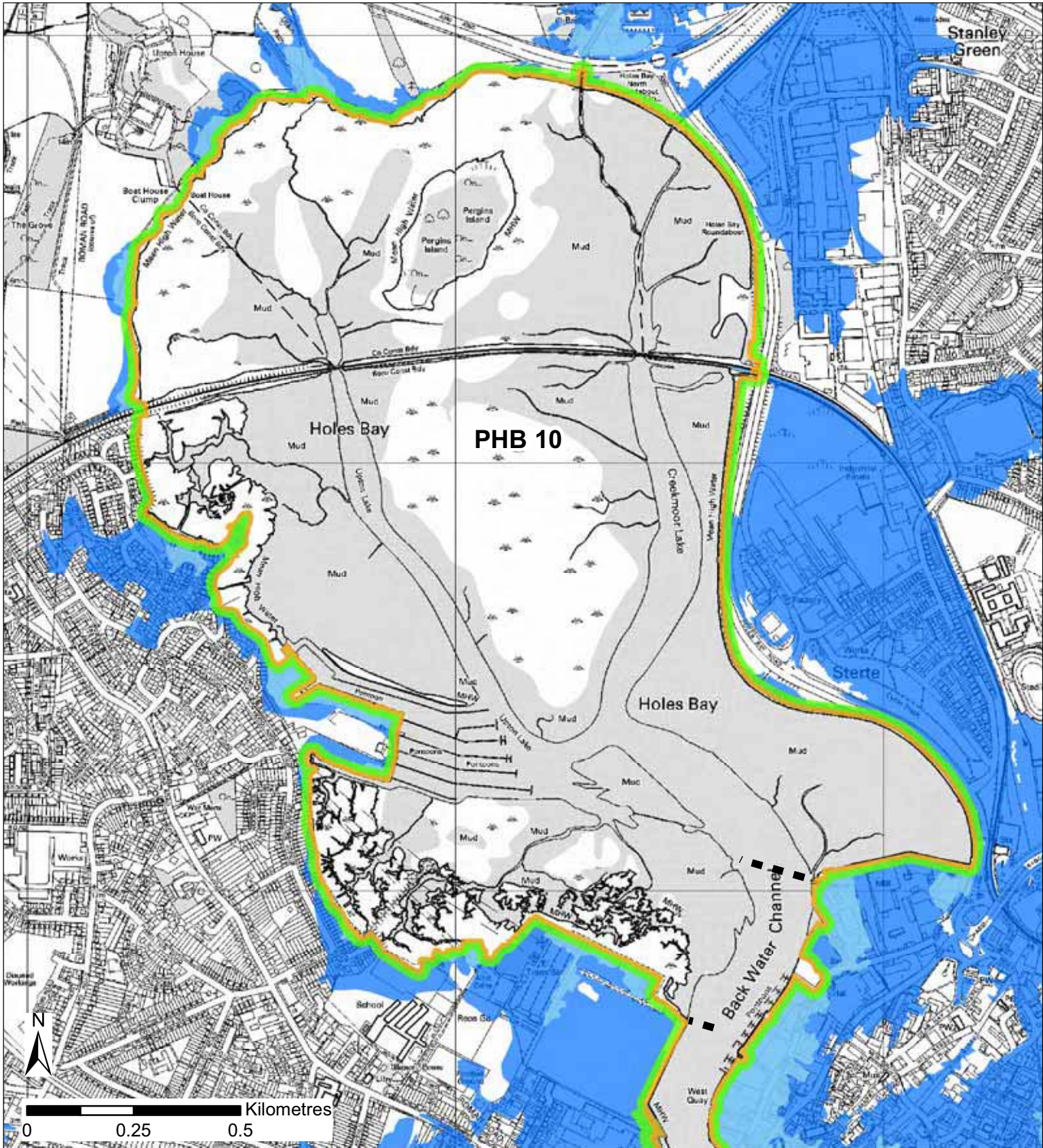
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- ■ ■ Policy Unit Boundary
- Shoreline Management
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise

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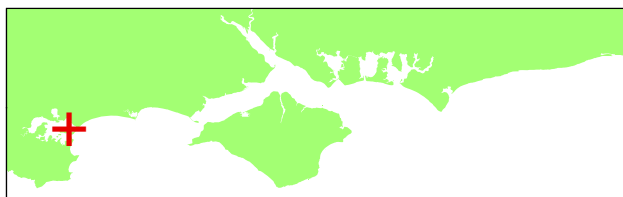
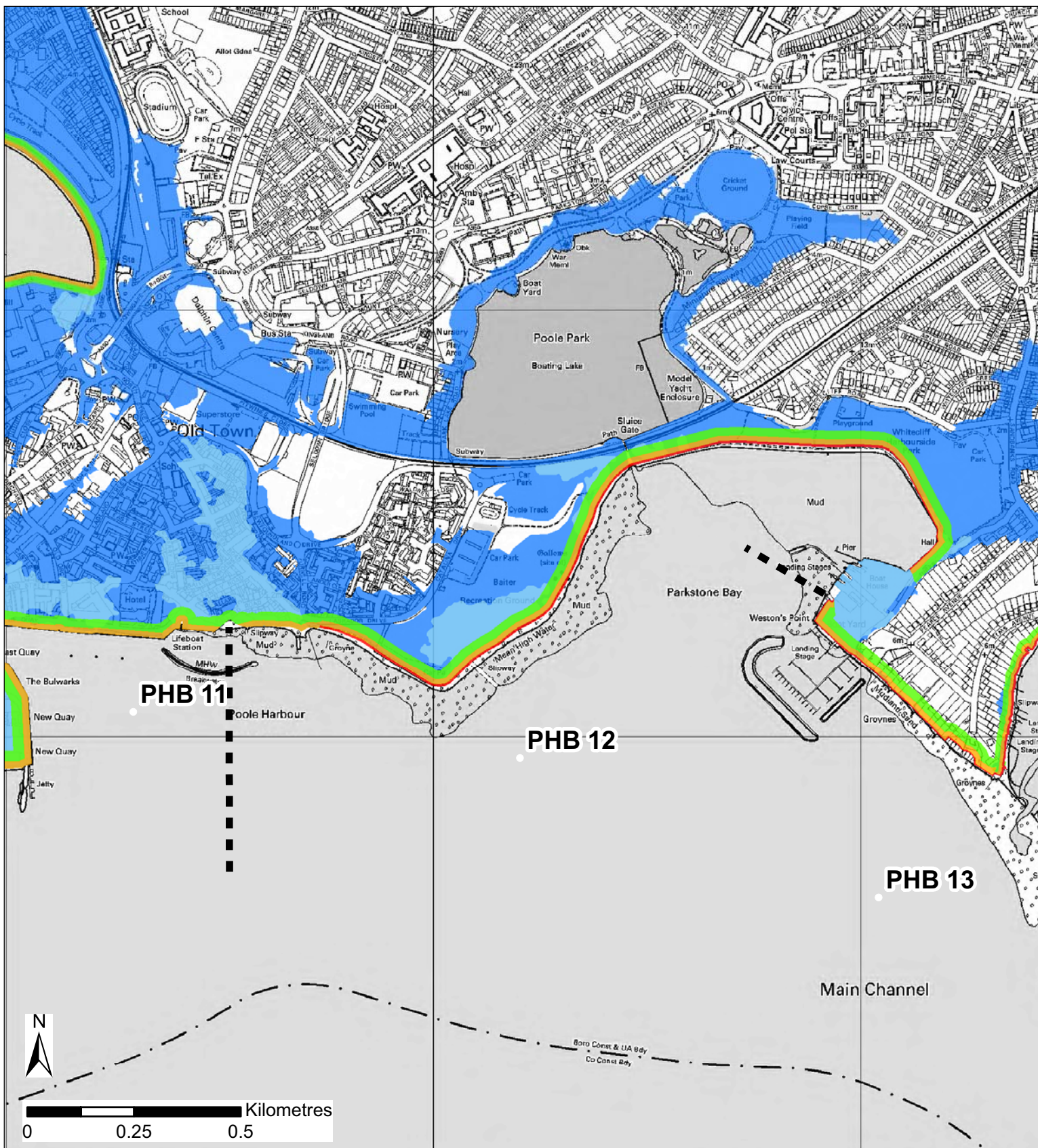




- ■ ■ Policy Unit Boundary
- Indicative erosion zone up to 2025
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--- Policy Unit Boundary

■ Indicative erosion zone up to 2025

■ Indicative erosion zone up to 2055

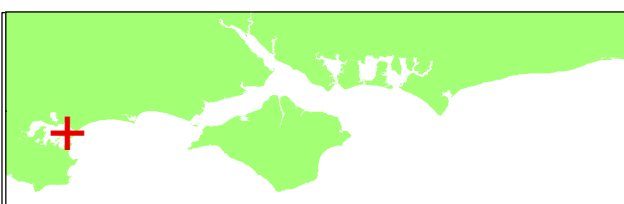
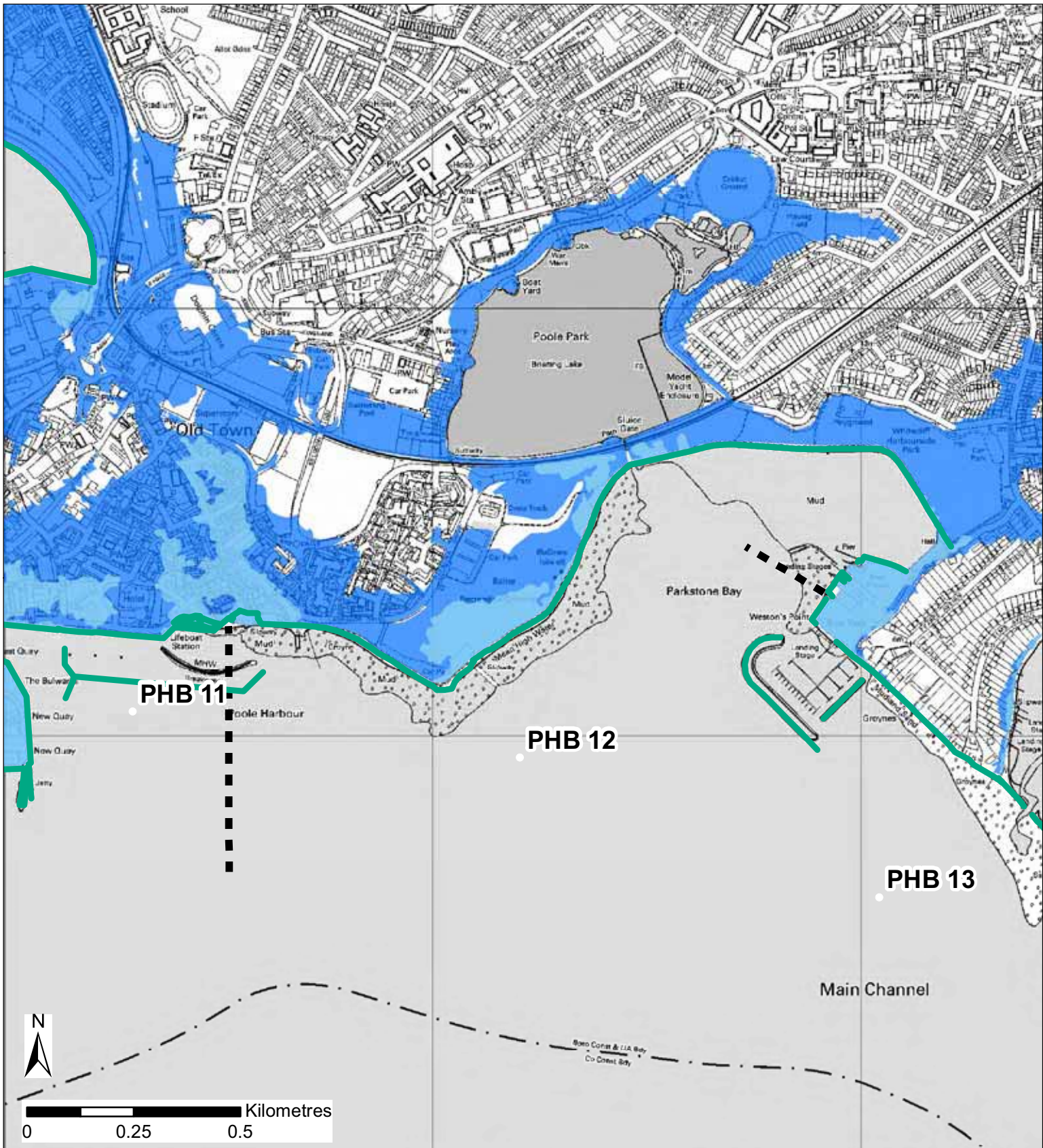
■ Indicative erosion zone up to 2105

■ 2008 (1:200 yr) Flood Zone 3 © Environment Agency

■ 2102 (1:200 yr) Indicative Floodplains with sea level rise



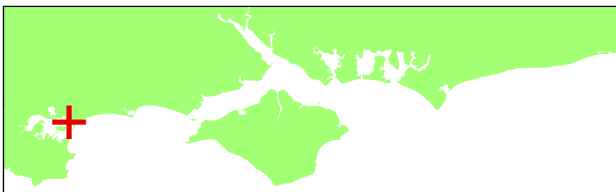
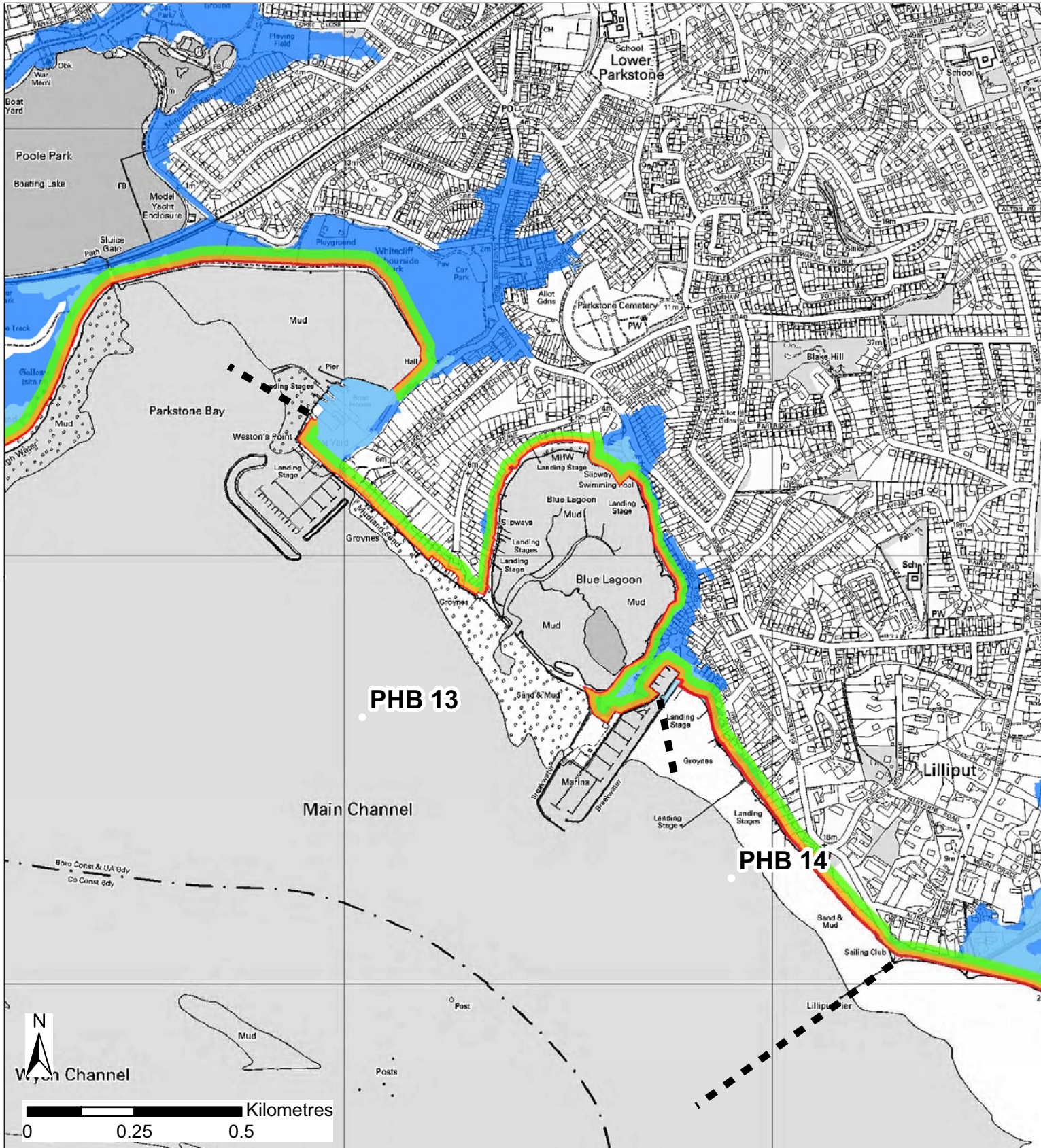
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- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
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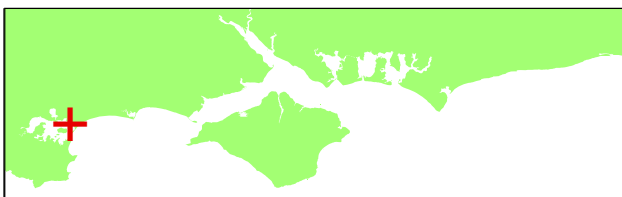
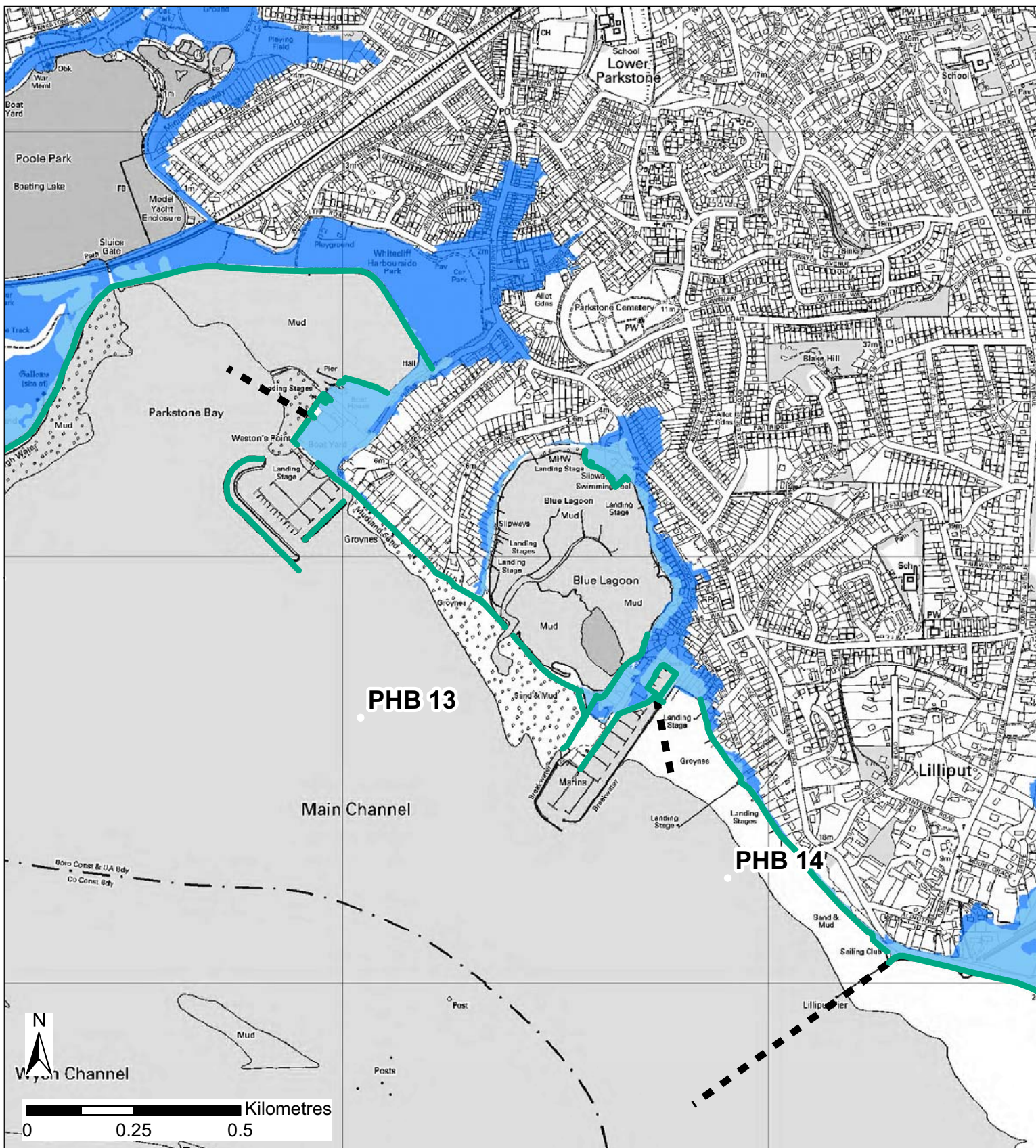




- ■ ■ Policy Unit Boundary
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- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
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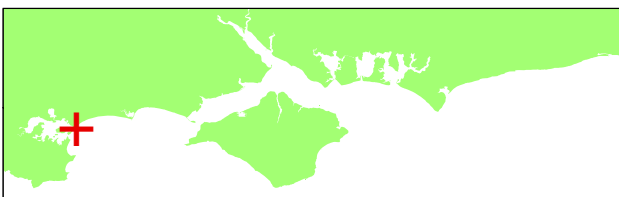
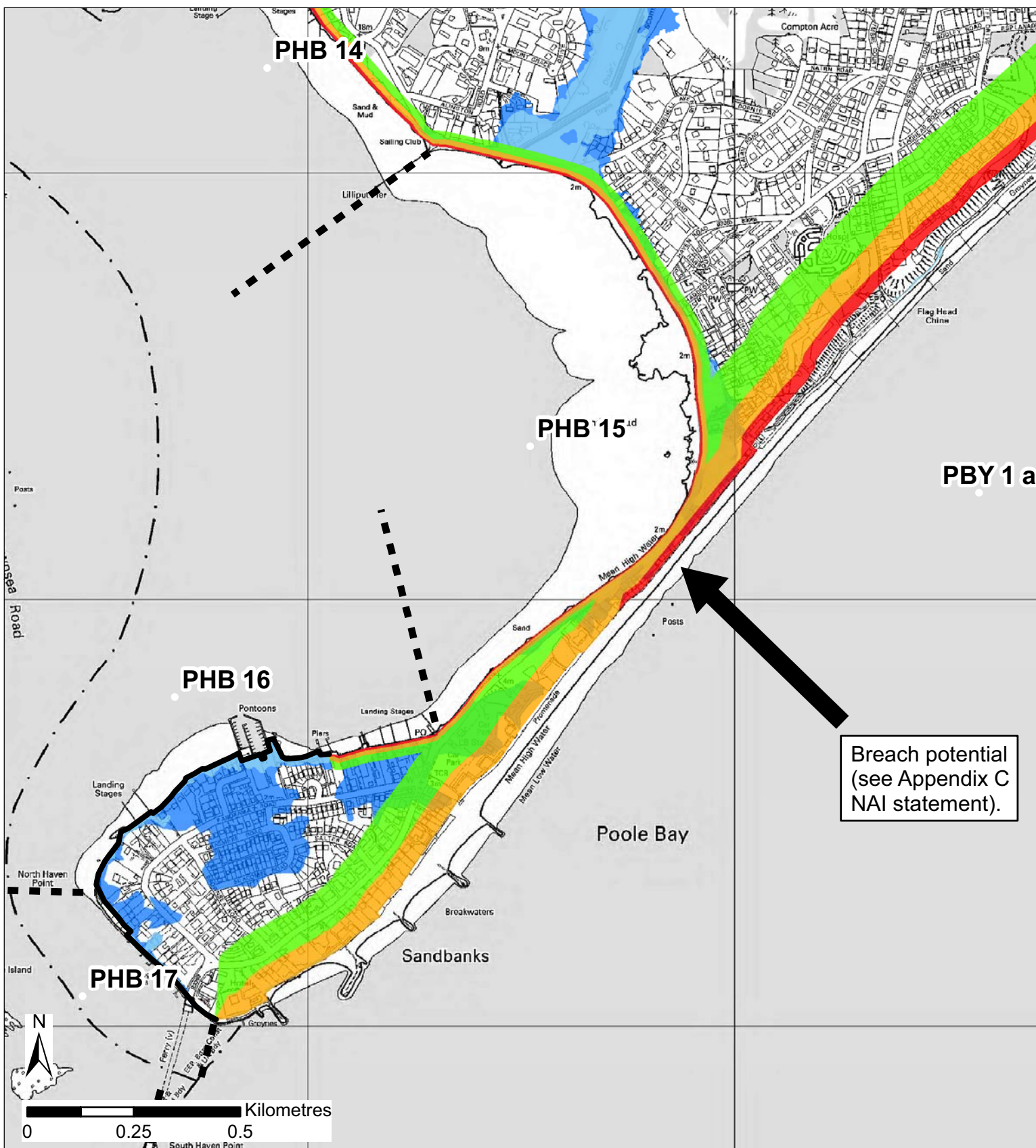




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- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
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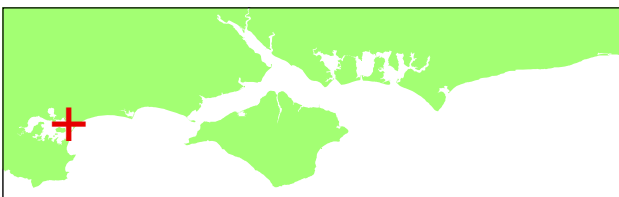
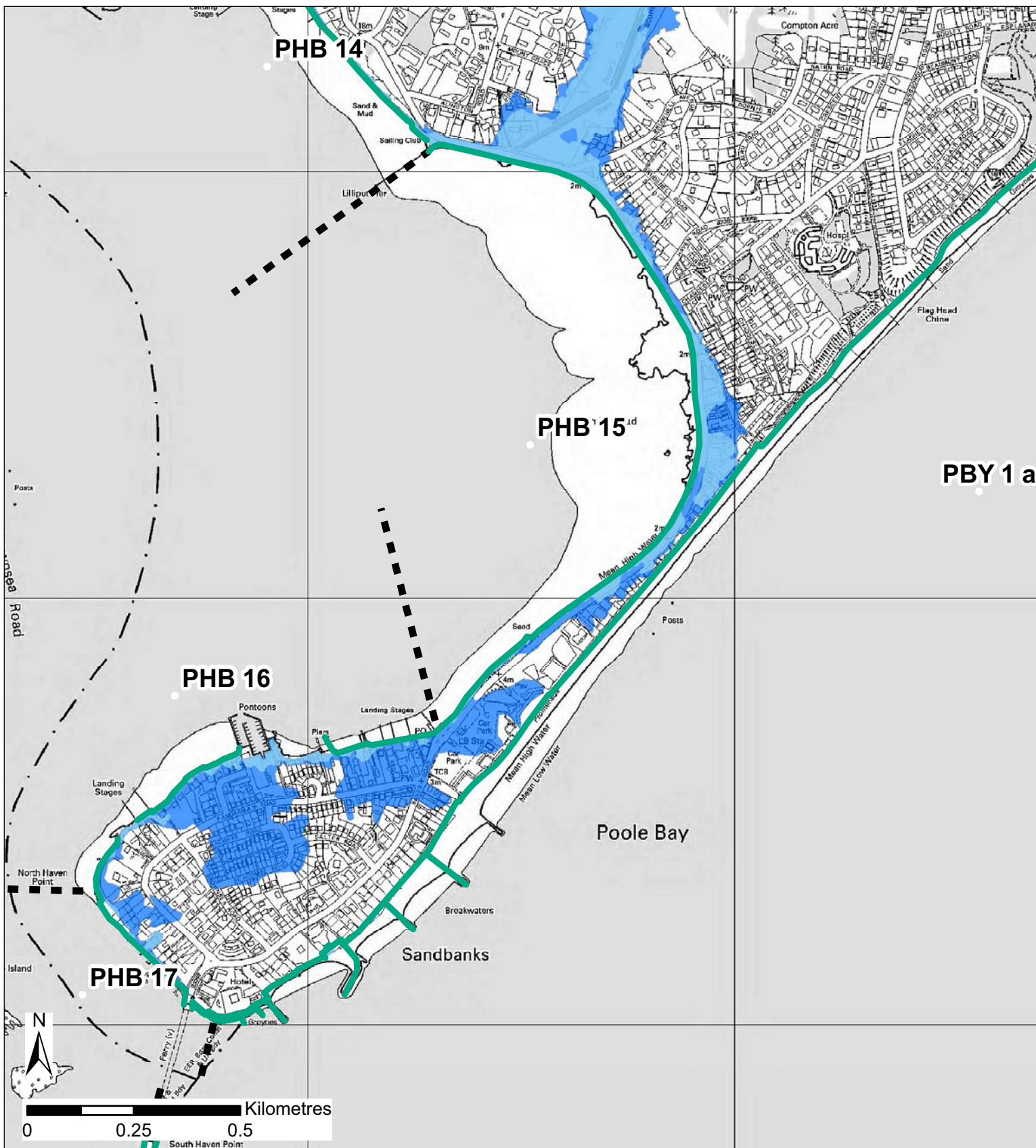




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- Policy Unit Boundary
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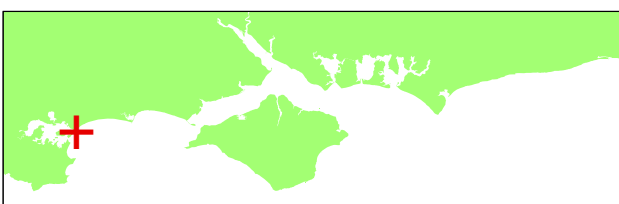
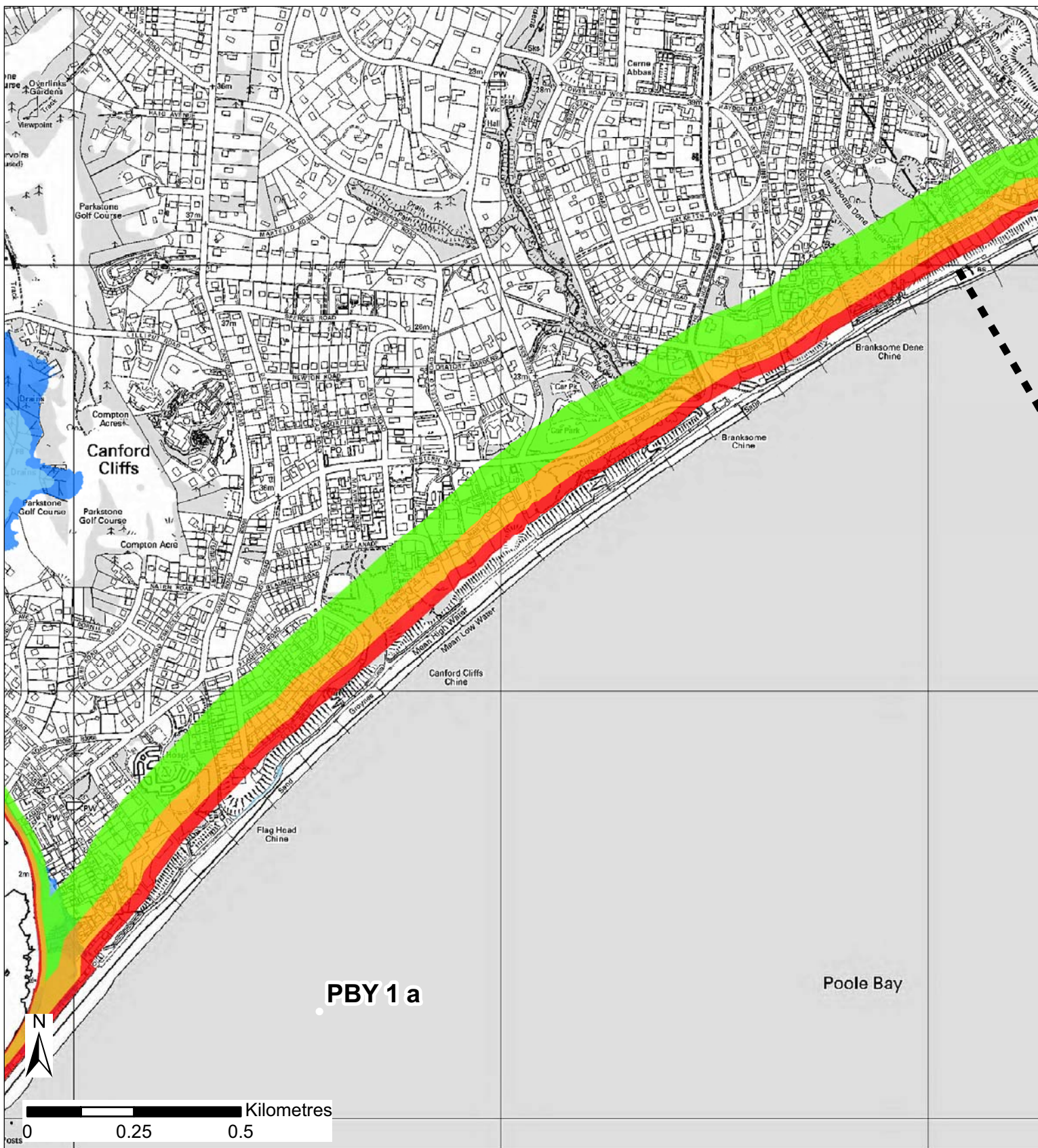




- ■ | Policy Unit Boundary
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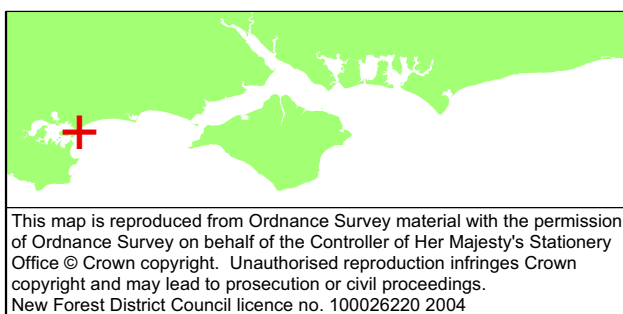
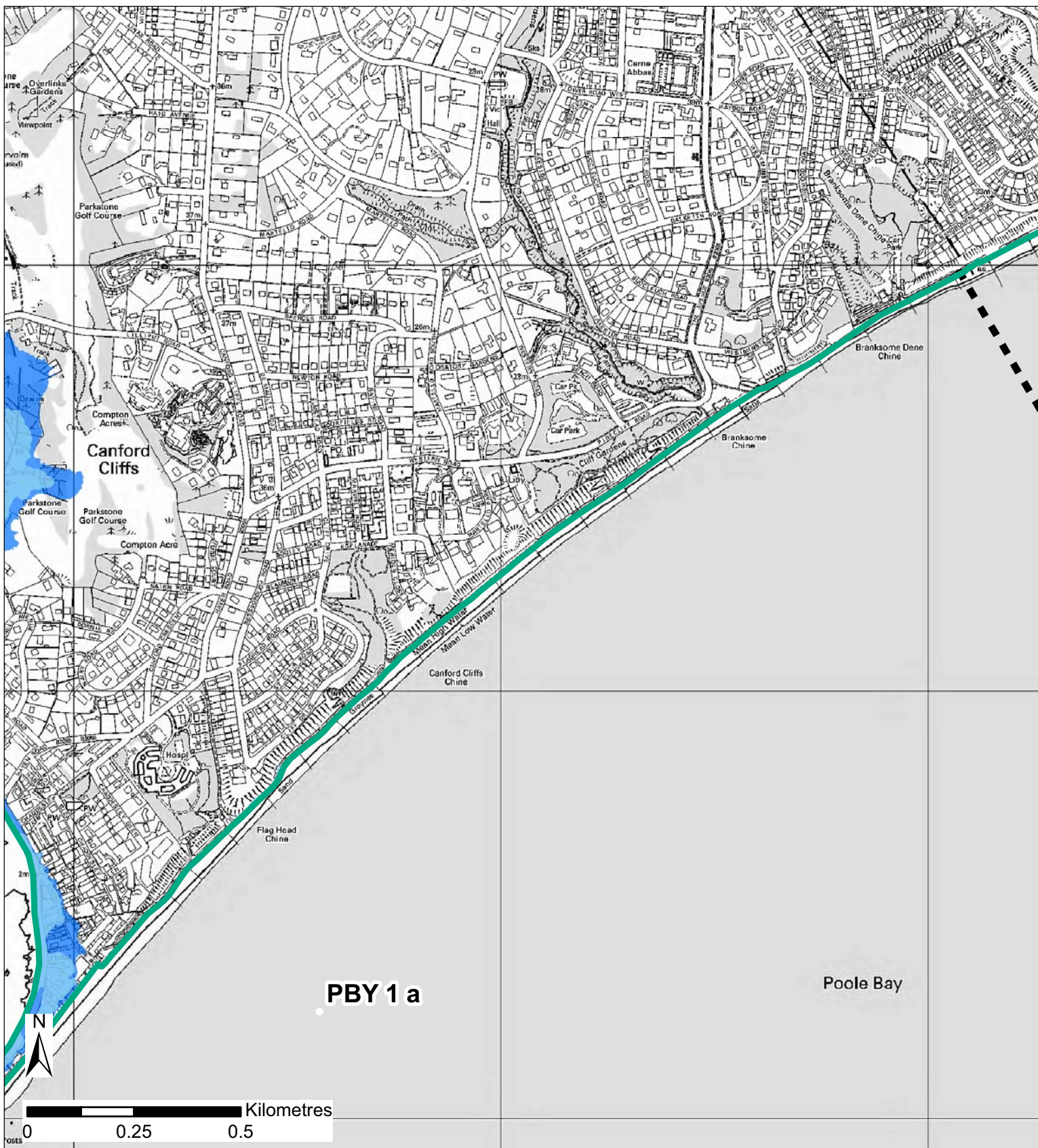




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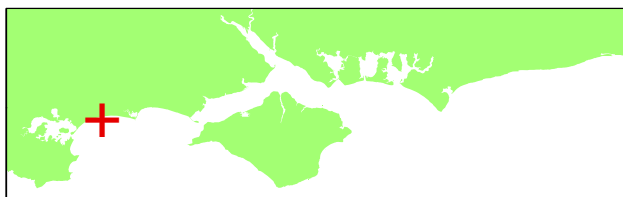
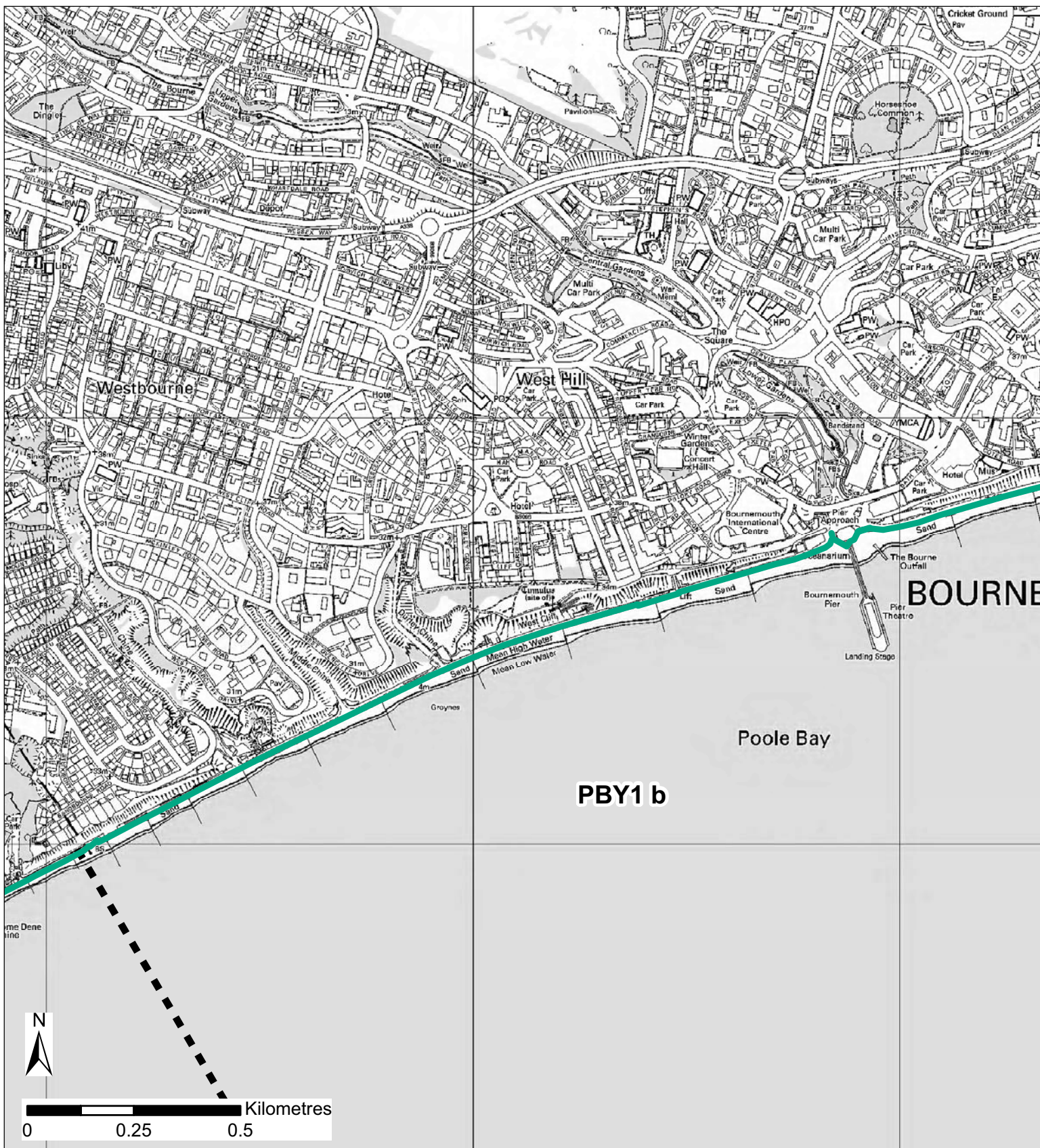
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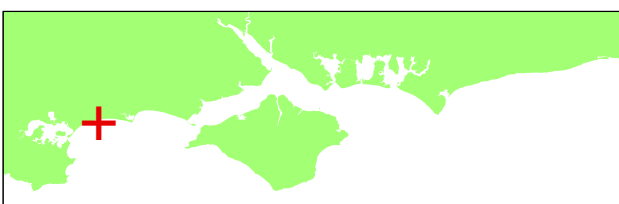
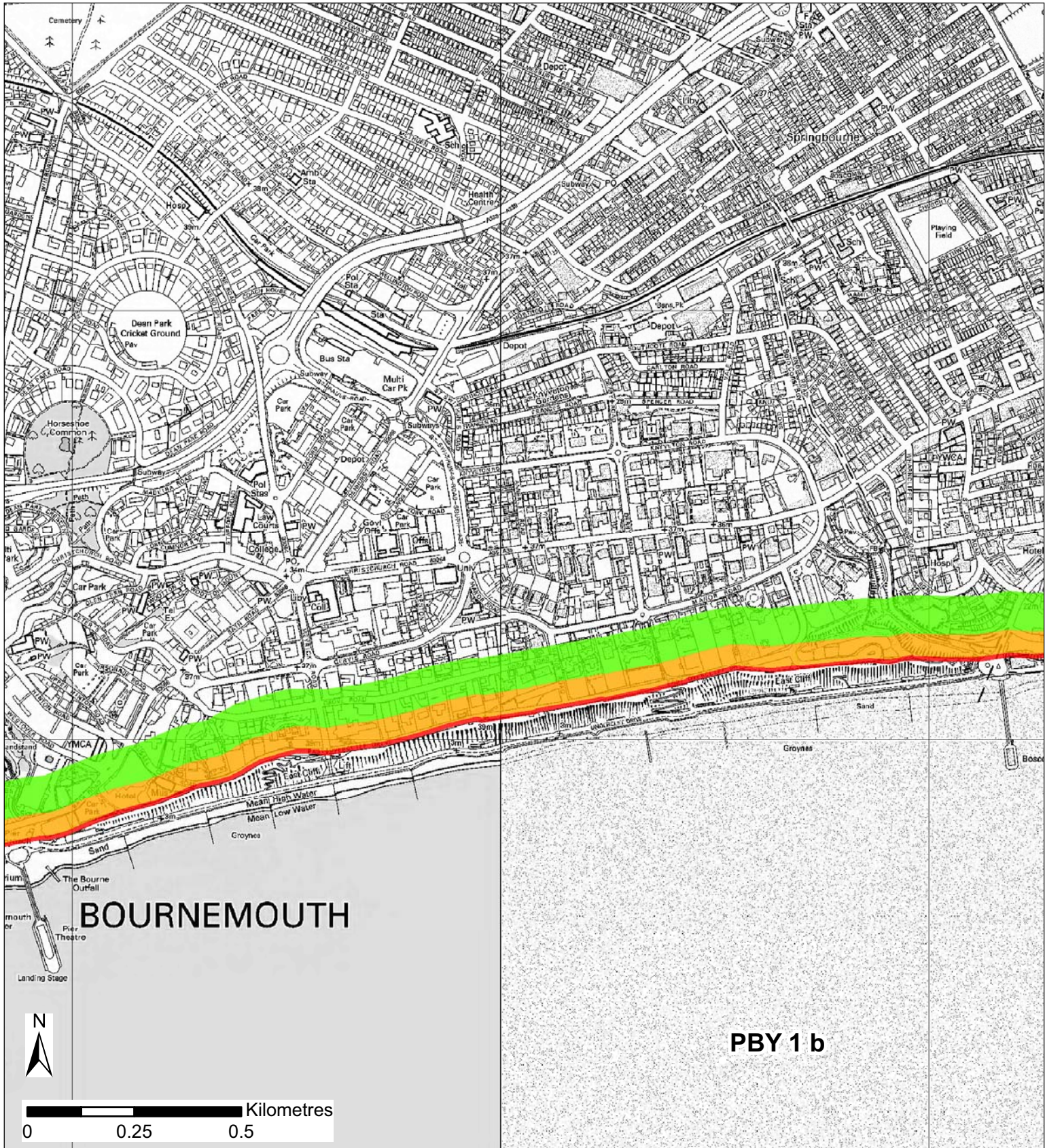




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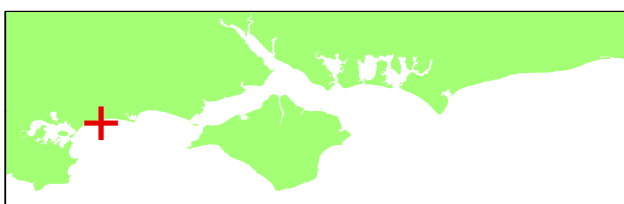
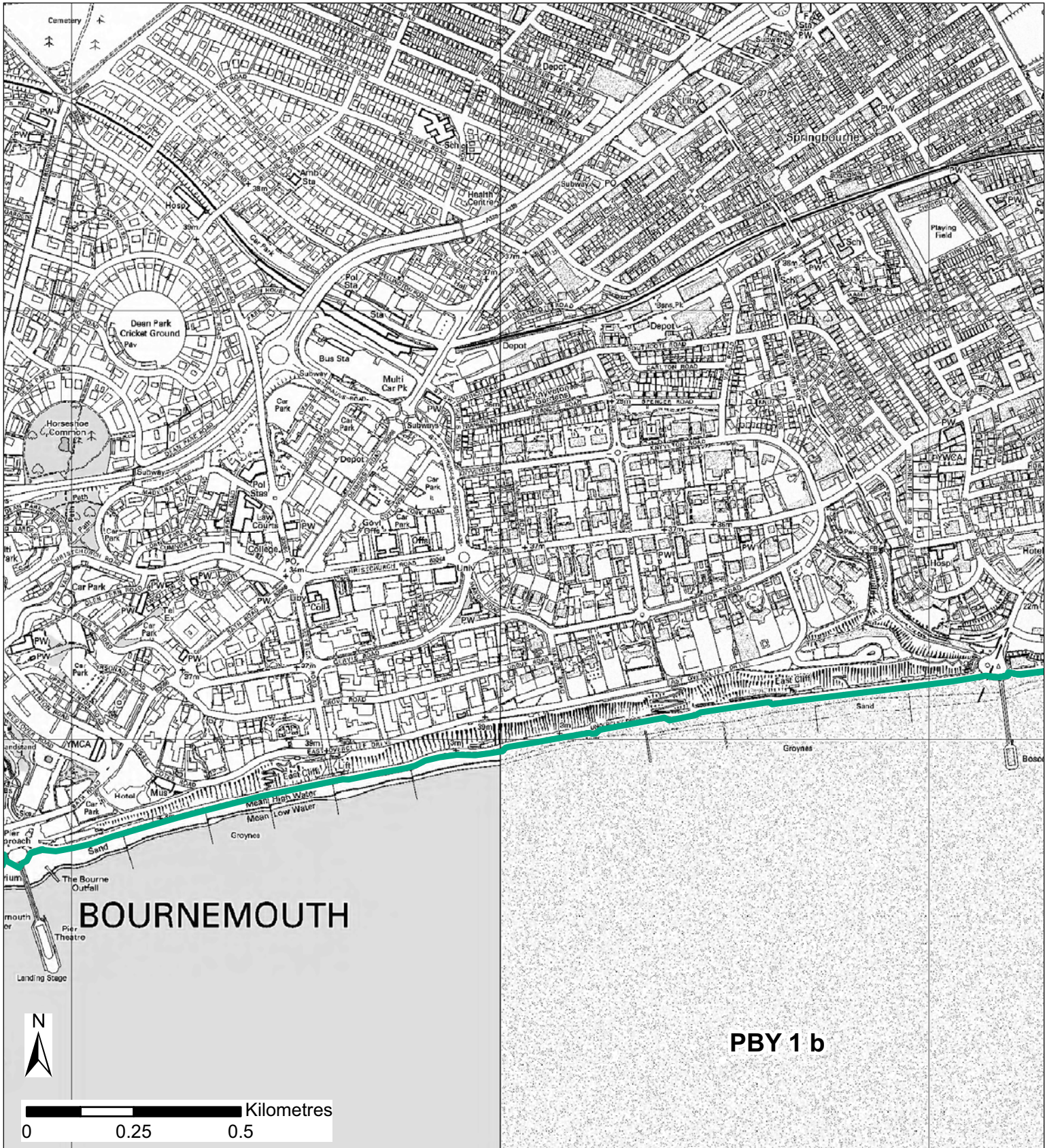




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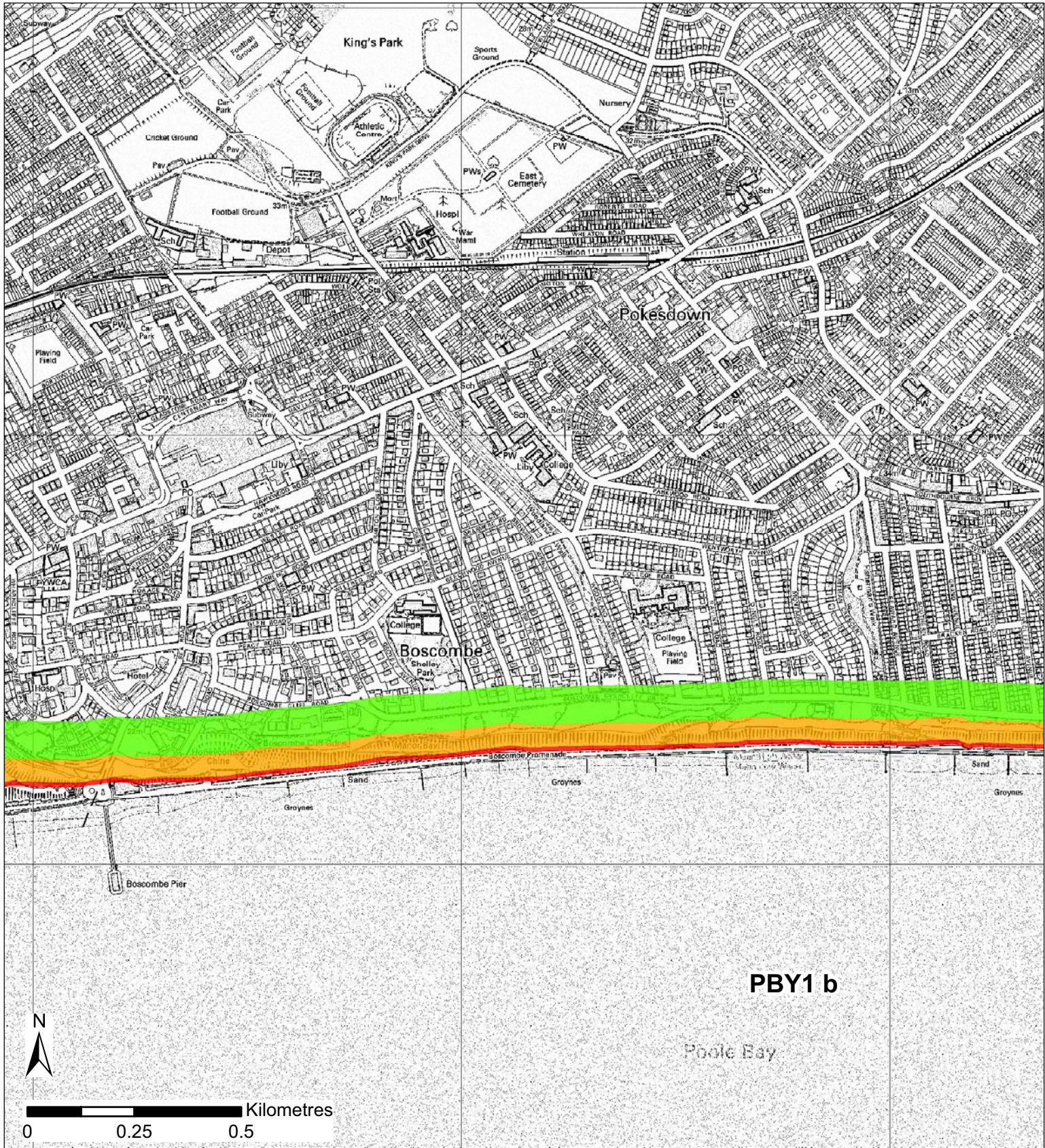




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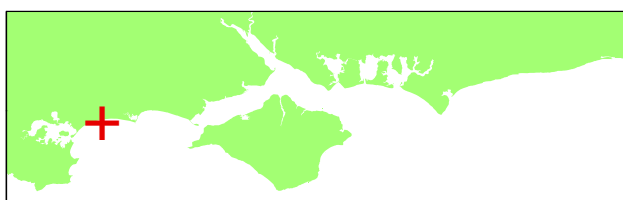




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	Policy Unit Boundary
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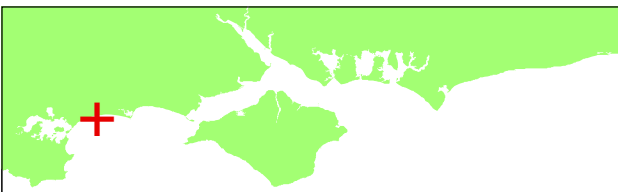
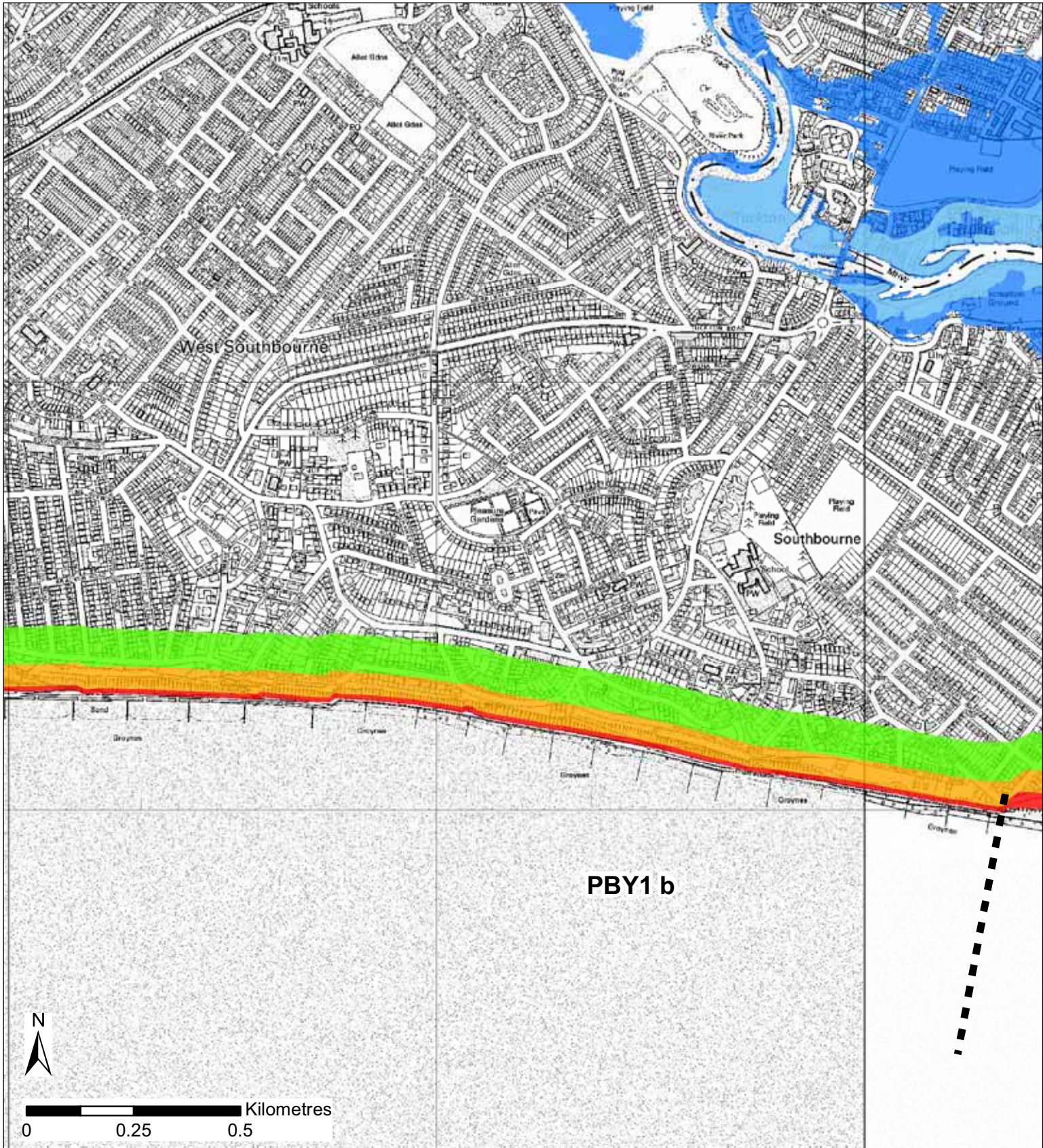




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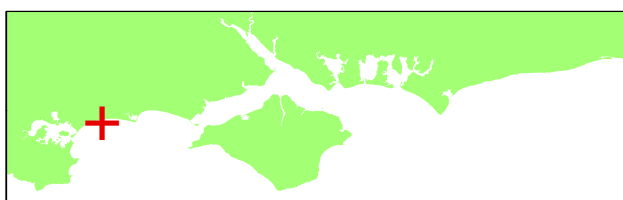
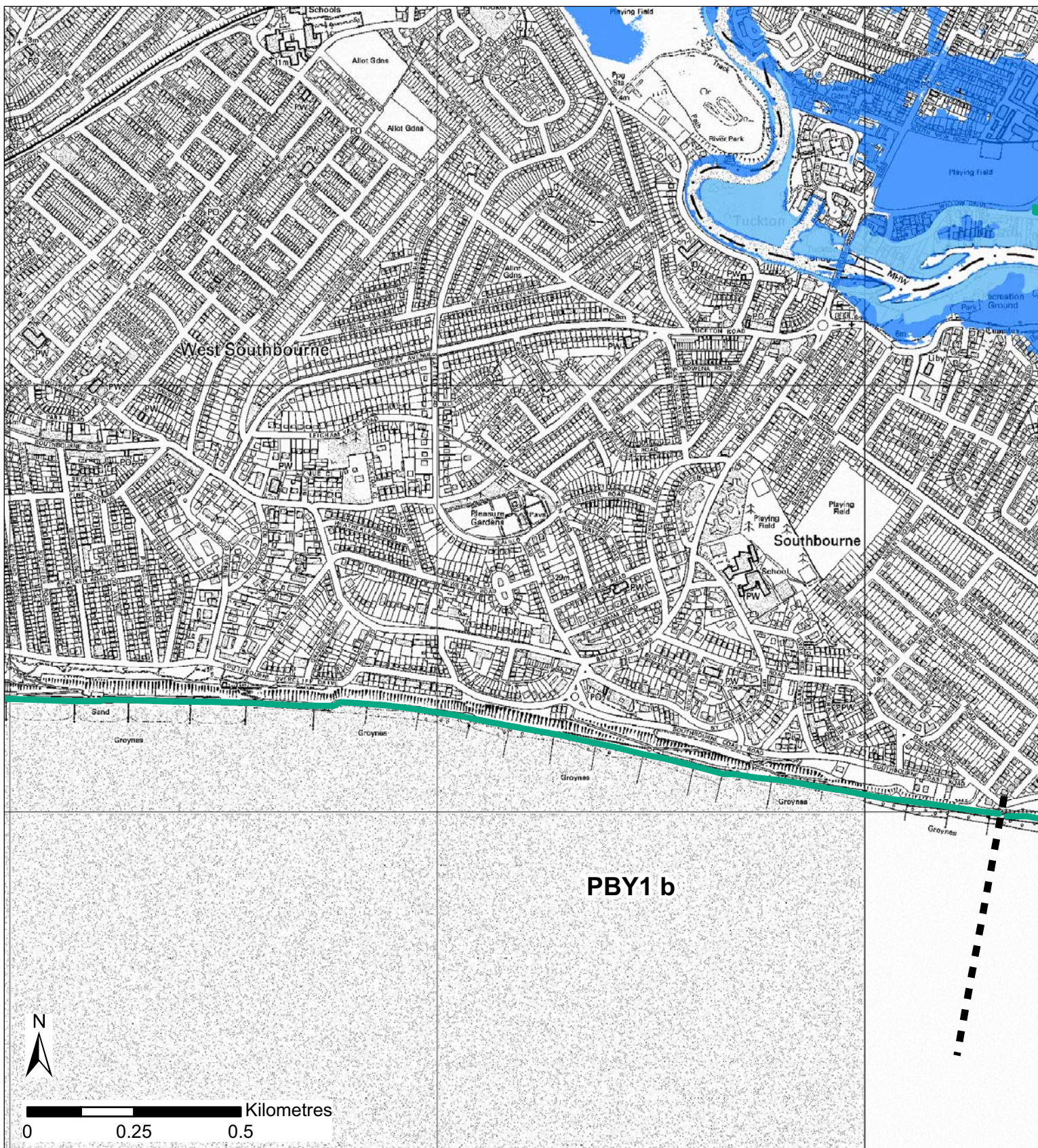




- Policy Unit Boundary
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- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
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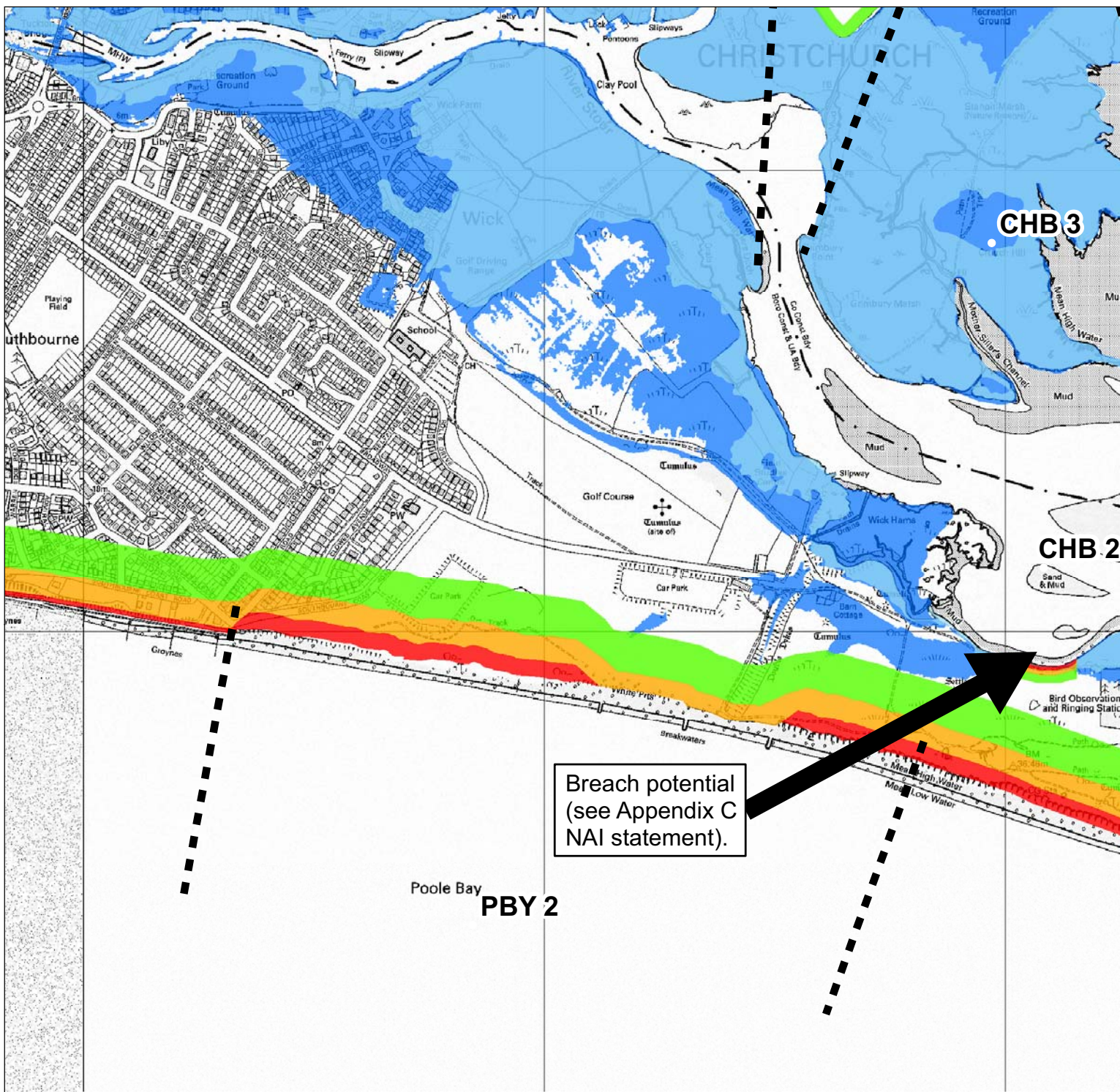




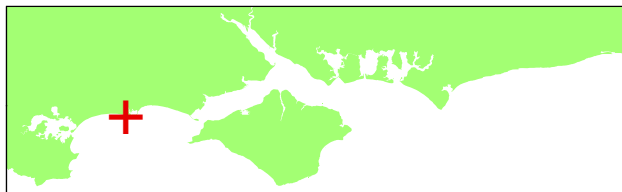
- ■ | Policy Unit Boundary
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0 0.25 0.5 Kilometres



--- Policy Unit Boundary

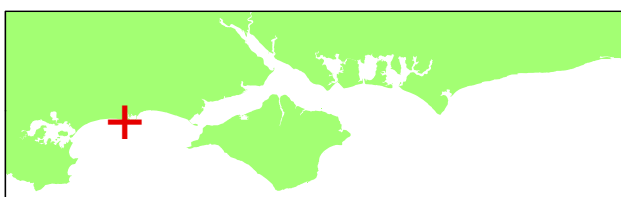
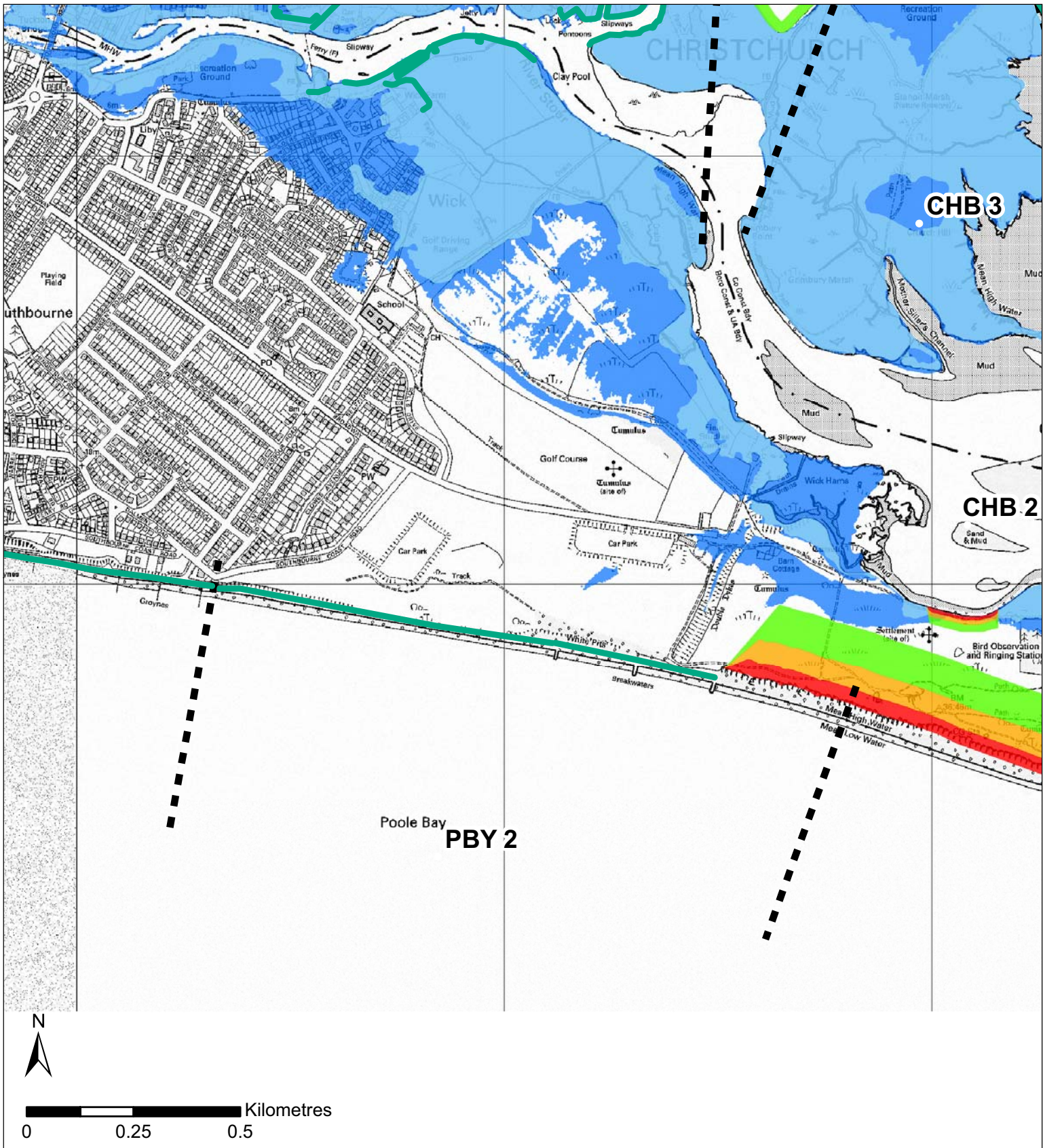
- Indicative erosion zone up to 2025
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2008 (1:200 yr) Flood Zone 3 © Environment Agency

2102 (1:200 yr) Indicative Floodplain with sea level rise



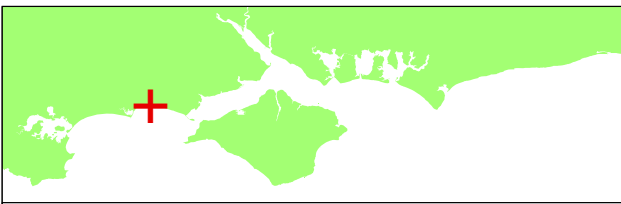
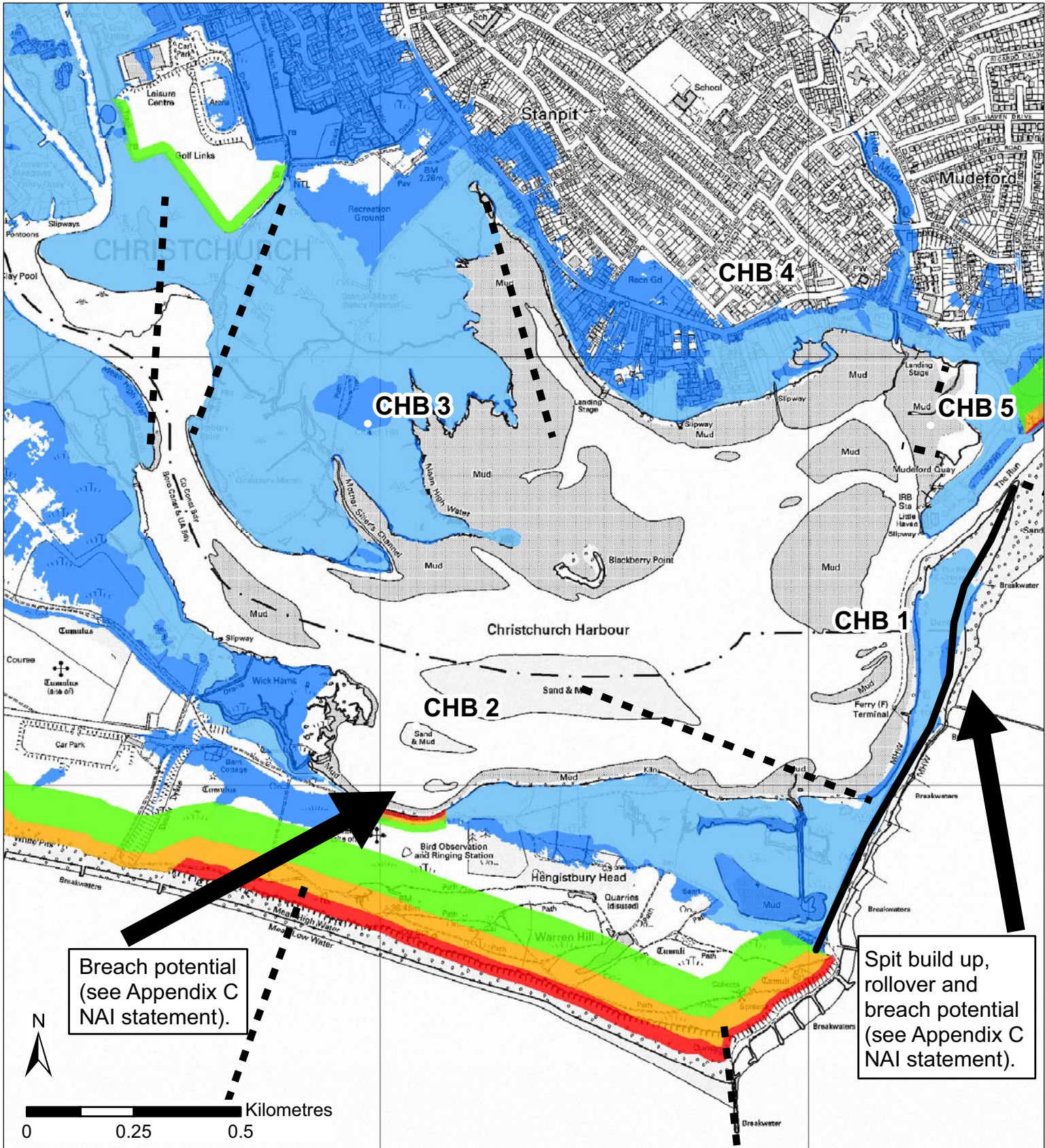
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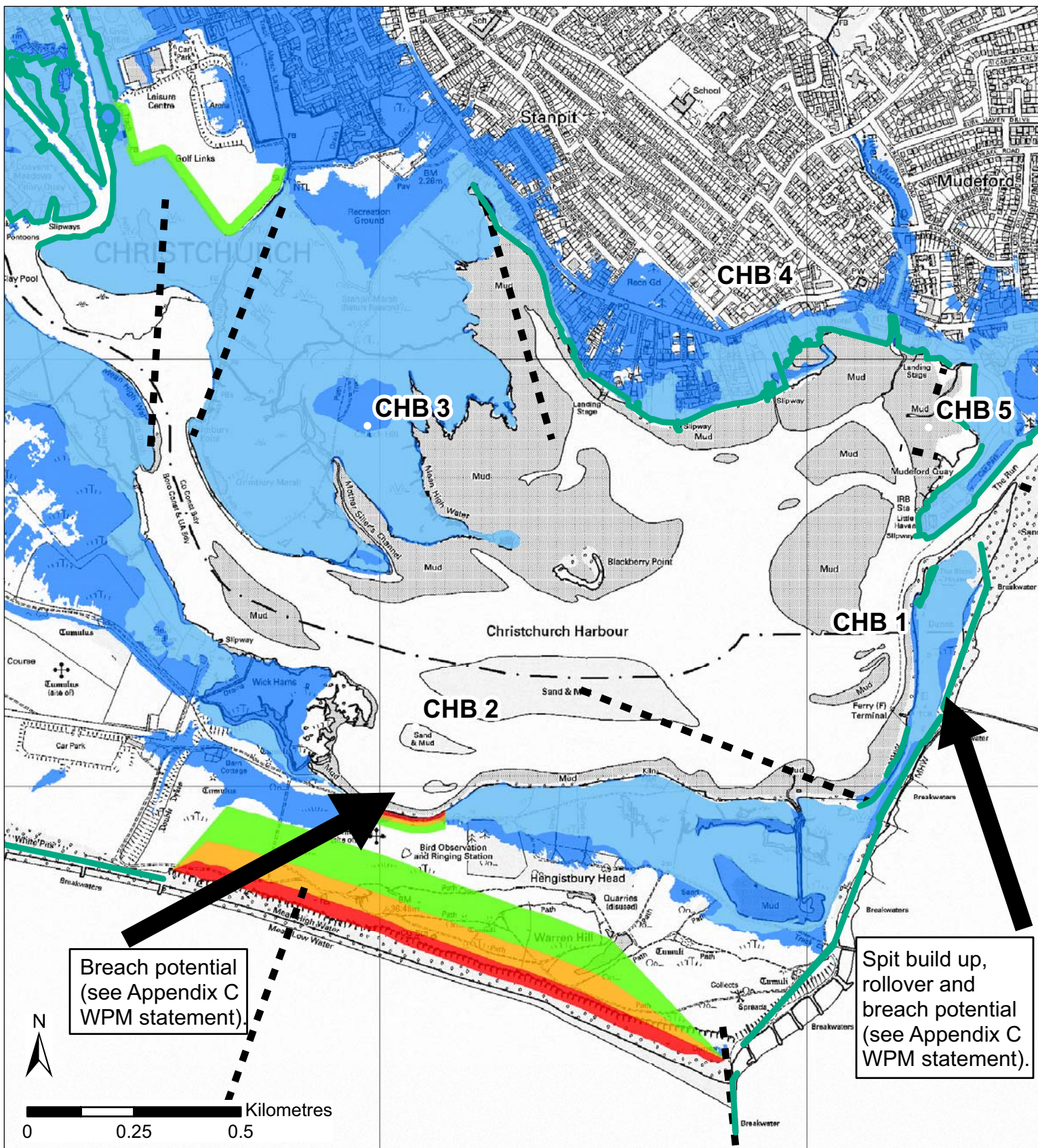




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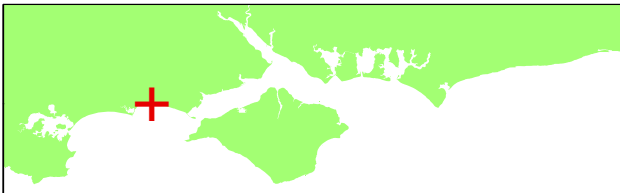
- Policy Unit Boundary
- Complex coastal processes
- Red Indicative erosion zone up to 2025
- Orange Indicative erosion zone up to 2055
- Green Indicative erosion zone up to 2105
- Light Blue 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- Dark Blue 2102 (1:200 yr) Indicative Floodplain with sea level rise





Breach potential
(see Appendix C
WPM statement)

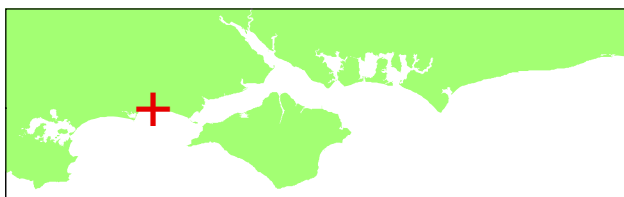
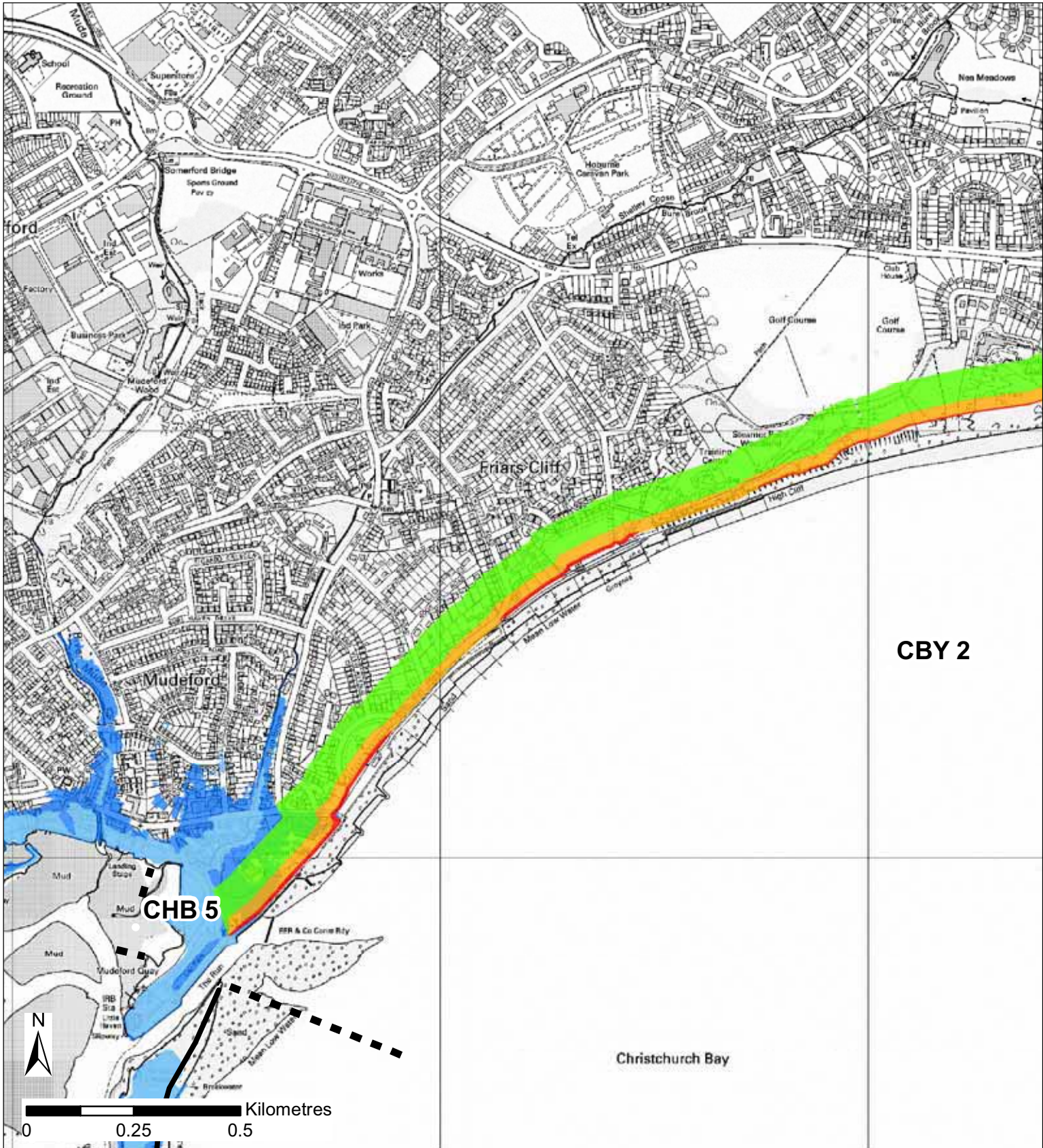
Spit build up,
rollover and
breach potential
(see Appendix C
WPM statement).



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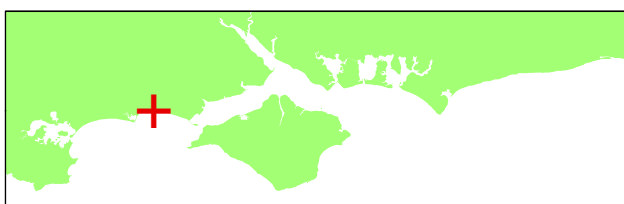
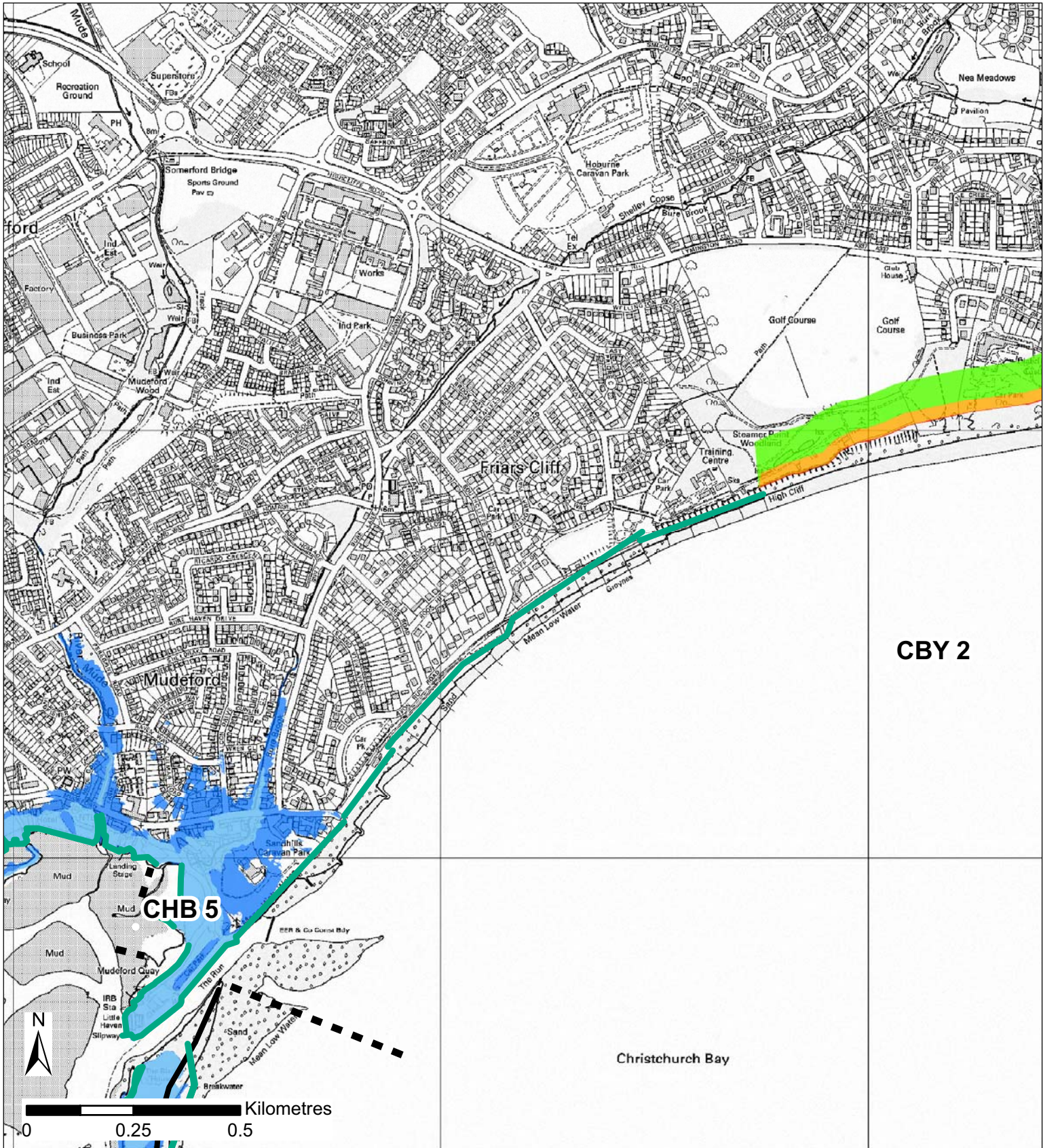




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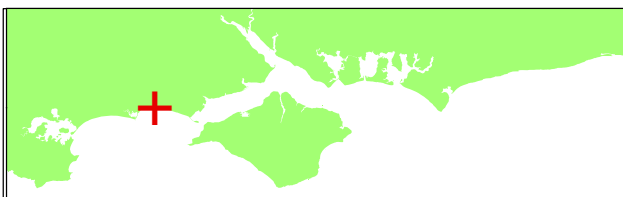
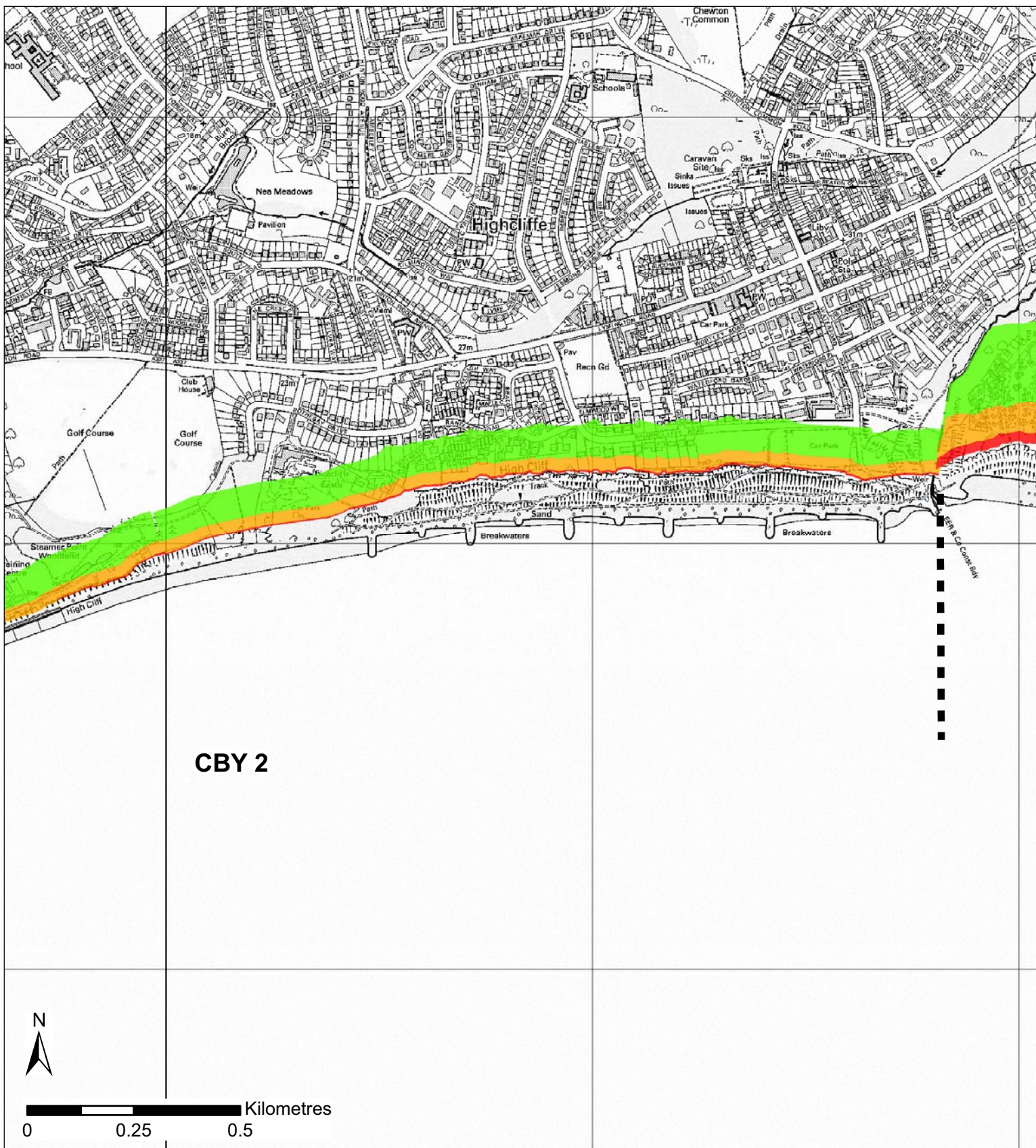




- ■ | Policy Unit Boundary
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--- Policy Unit Boundary

Red box: Indicative erosion zone up to 2025

Orange box: Indicative erosion zone up to 2055

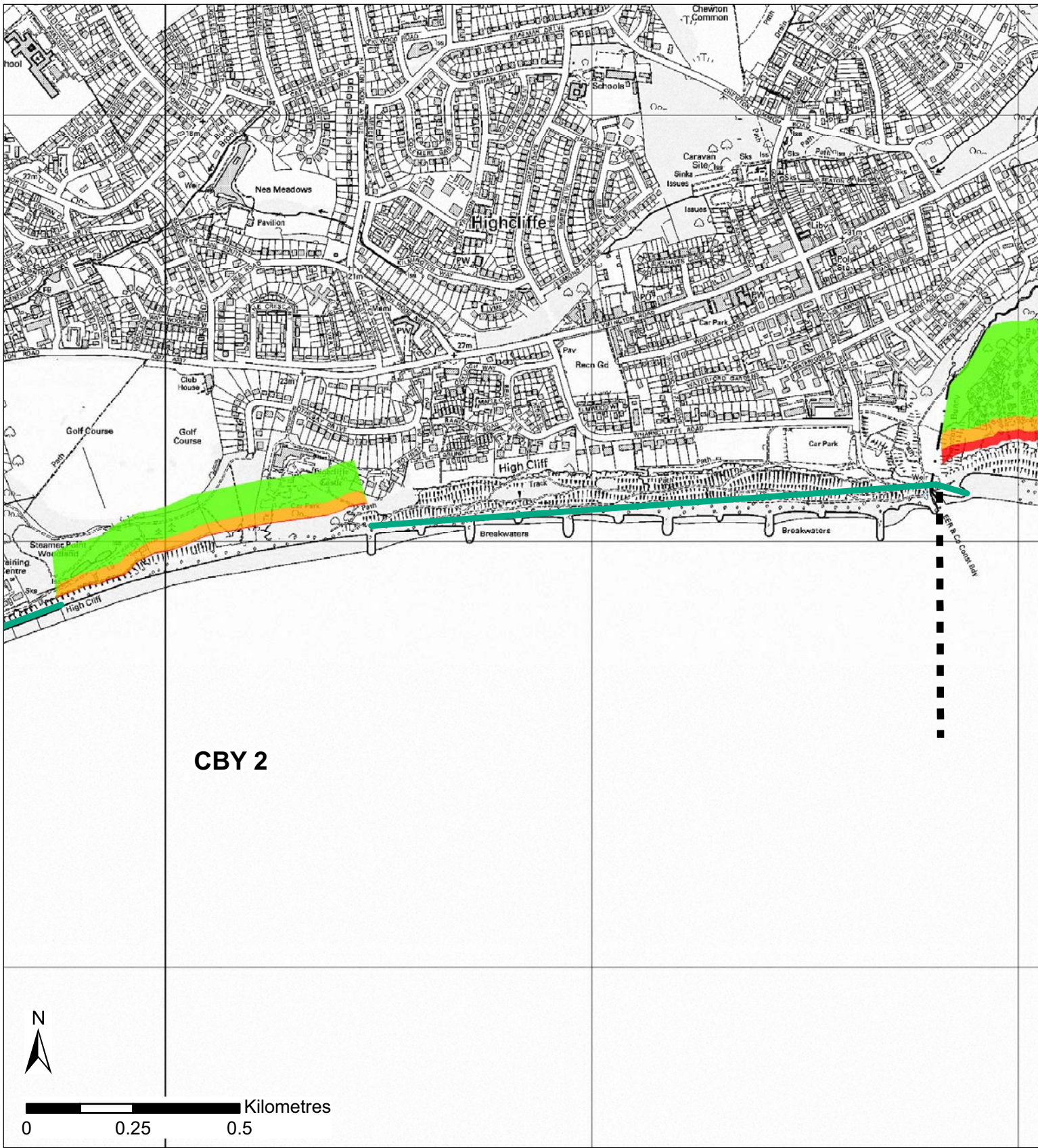
Green box: Indicative erosion zone up to 2105

Light blue box: 2008 (1:200 yr) Flood Zone 3 © Environment Agency

Dark blue box: 2102 (1:200 yr) Indicative Floodplain with sea level rise



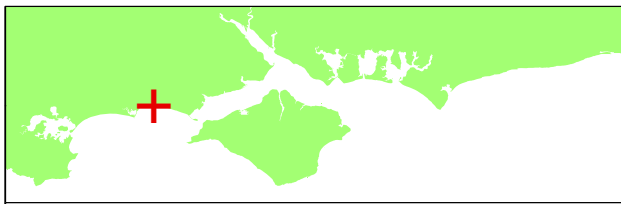
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CBY 2



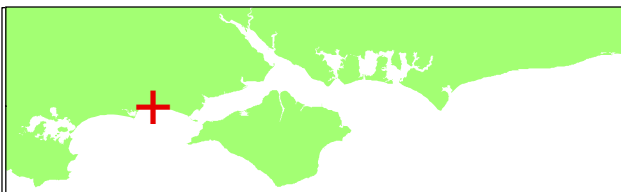
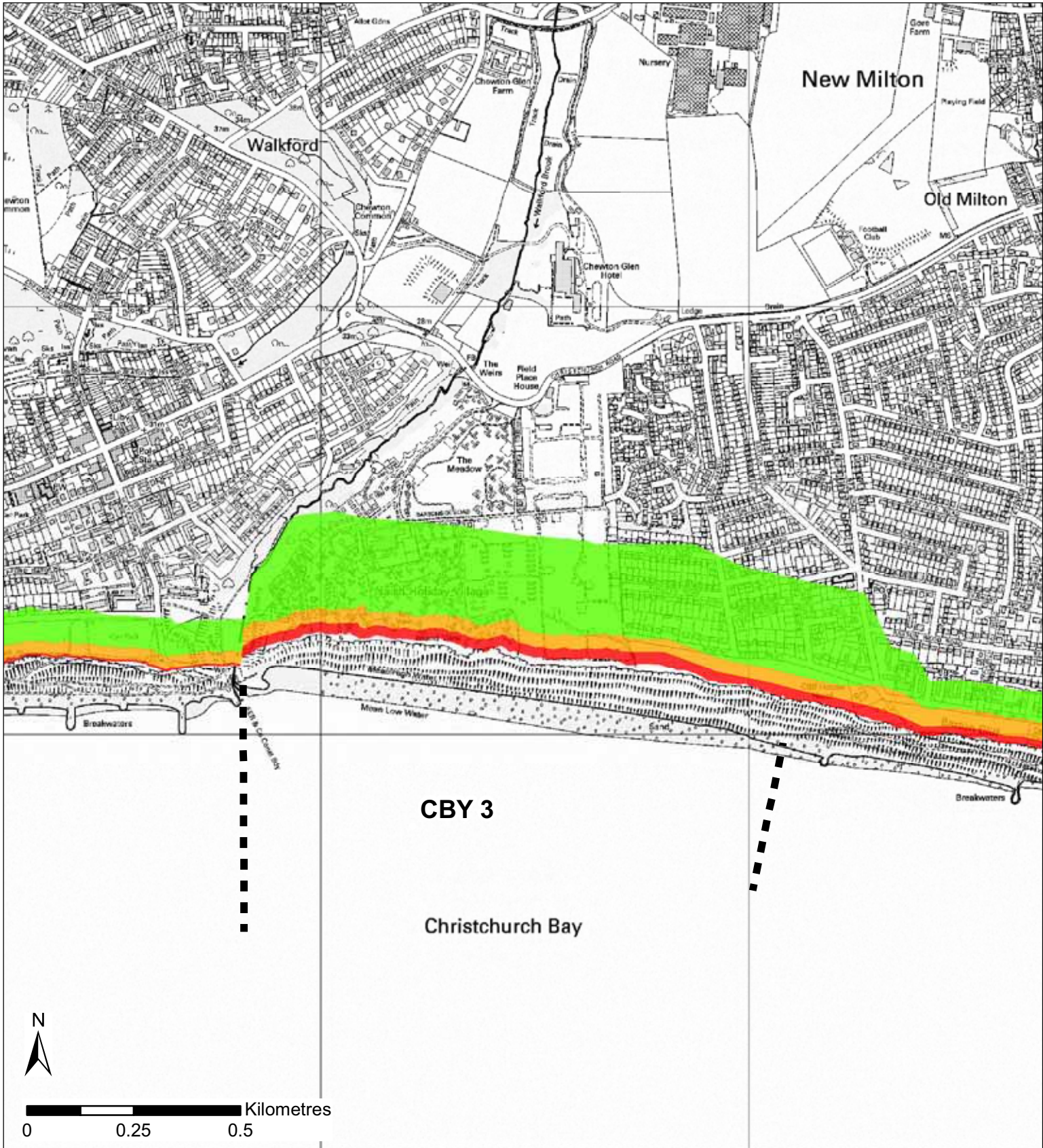
0 0.25 0.5 Kilometres



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- 2102 (1:200 yr) Indicative Floodplain with sea level rise

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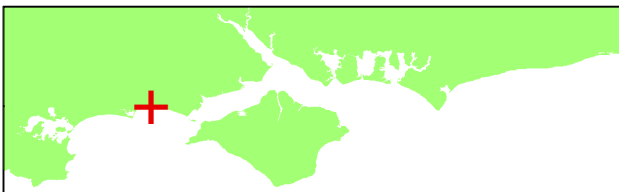
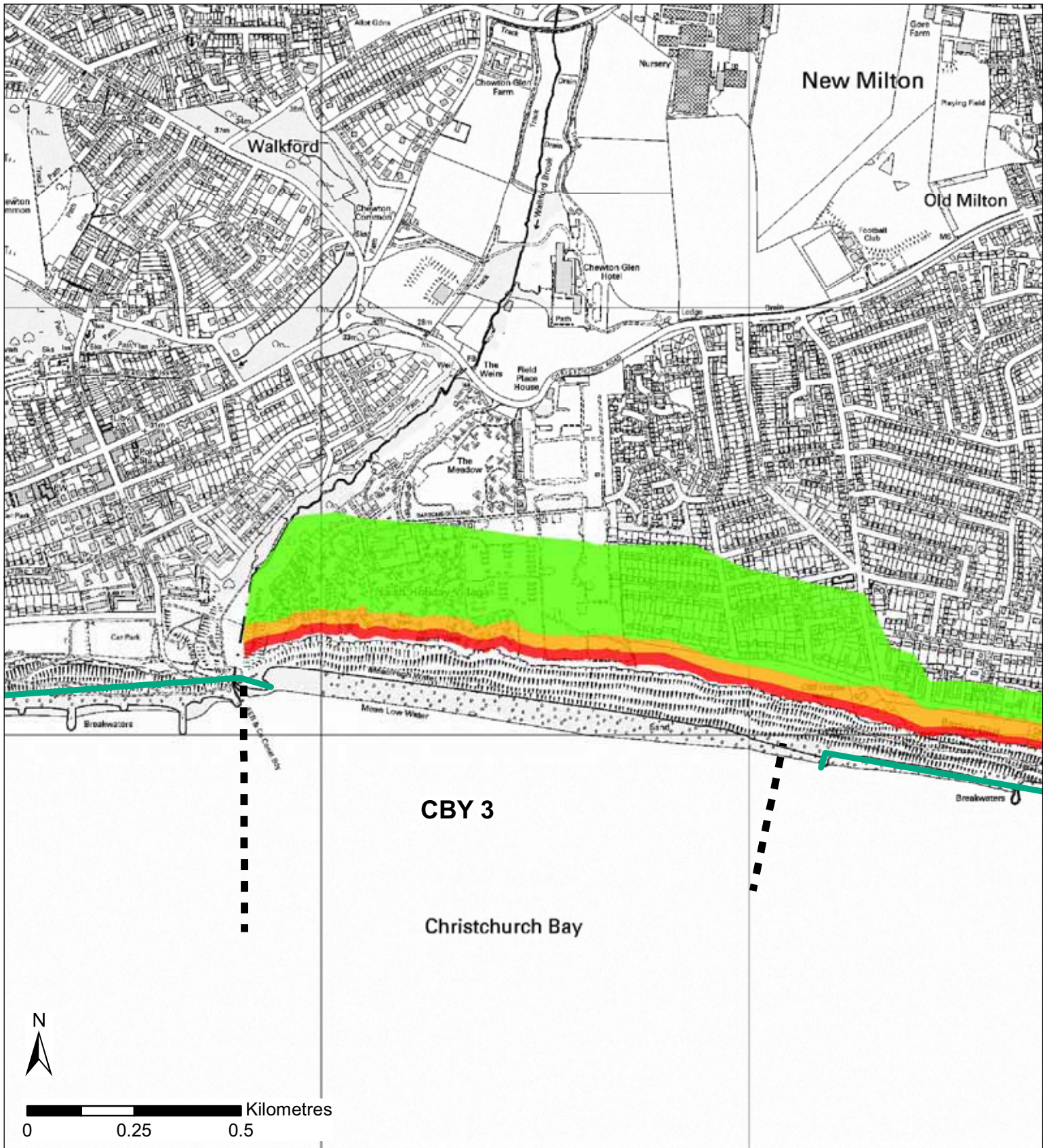




- ■ ■ Policy Unit Boundary
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise


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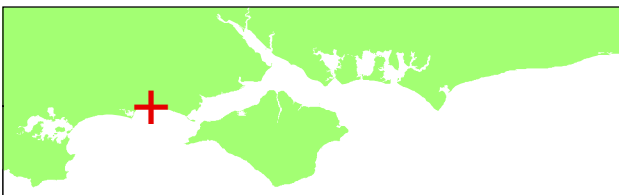
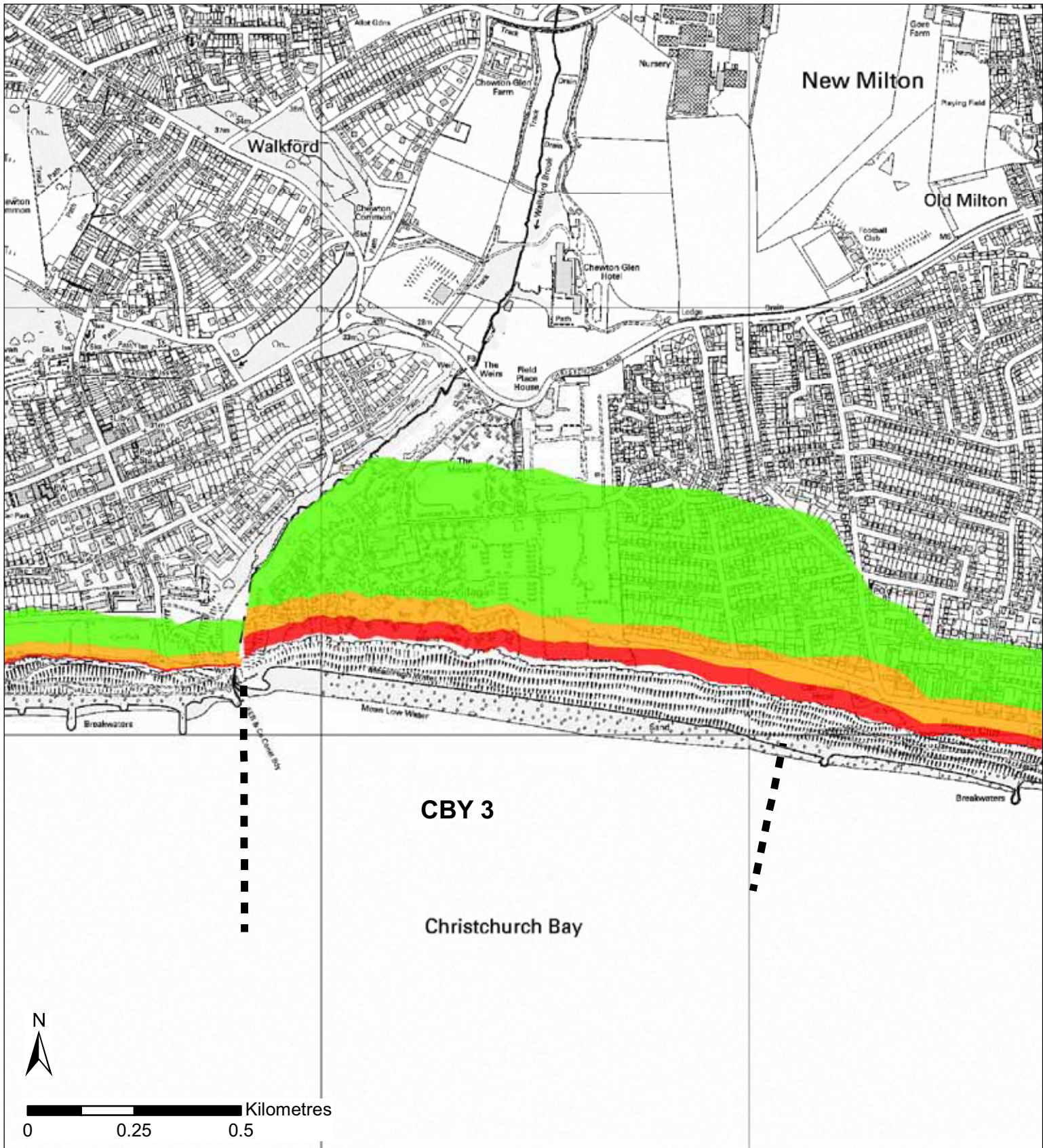




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- ■ | Policy Unit Boundary
- Shoreline Management
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- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise





--- Policy Unit Boundary

■ Indicative erosion zone up to 2025

■ Indicative erosion zone up to 2055

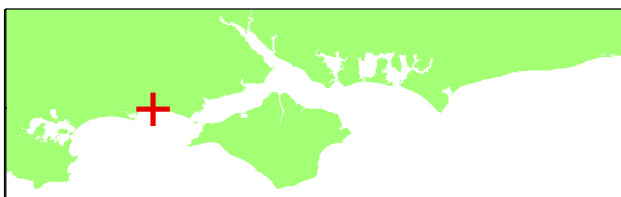
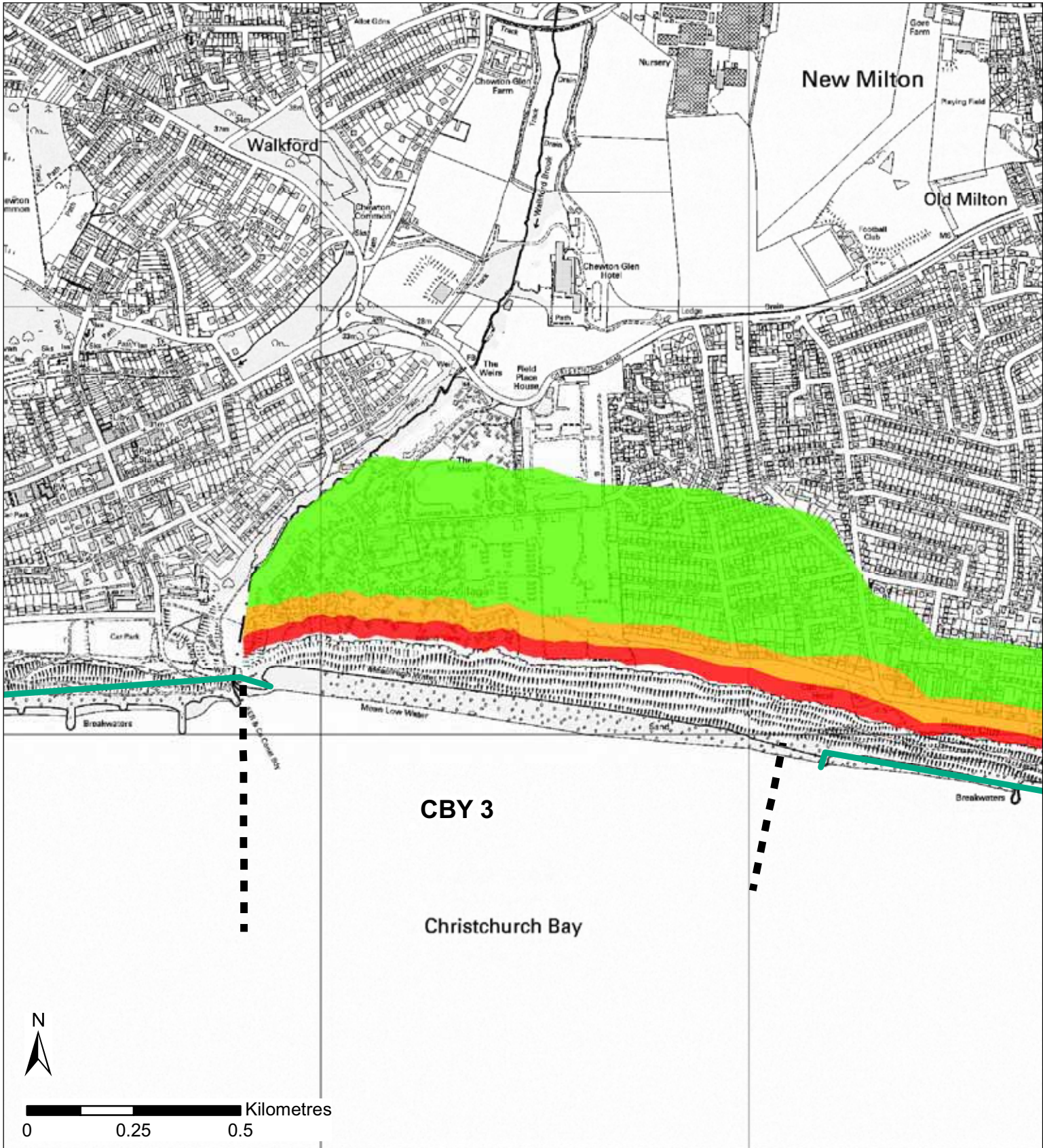
■ Indicative erosion zone up to 2105

■ 2008 (1:200 yr) Flood Zone 3 © Environment Agency

■ 2102 (1:200 yr) Indicative Floodplain with sea level rise



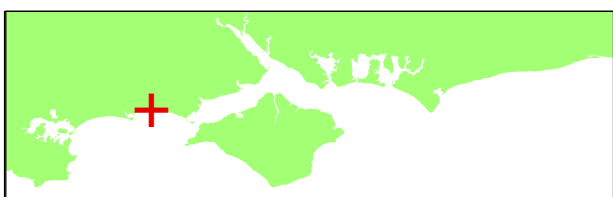
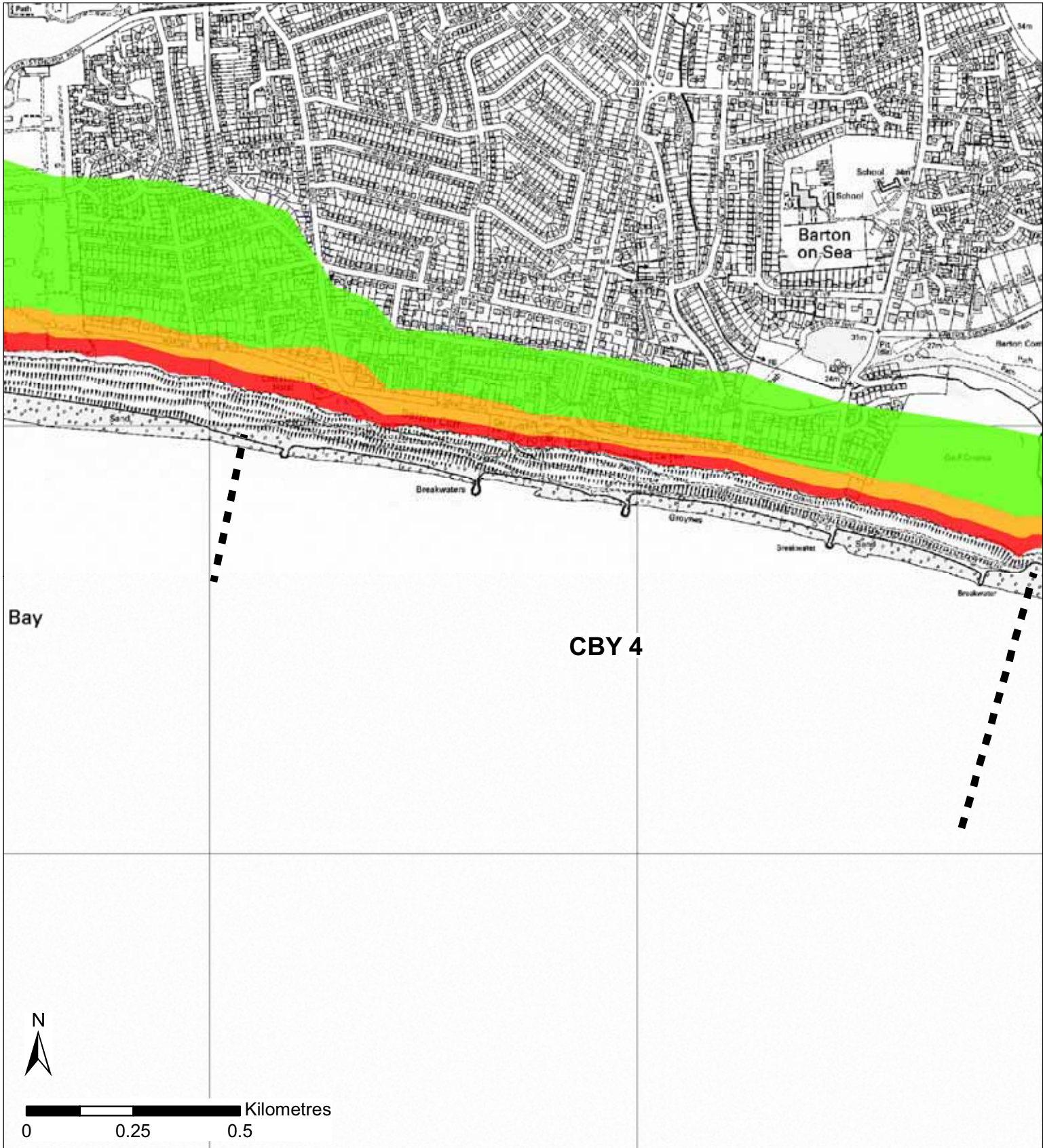
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- Shoreline Management
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- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise

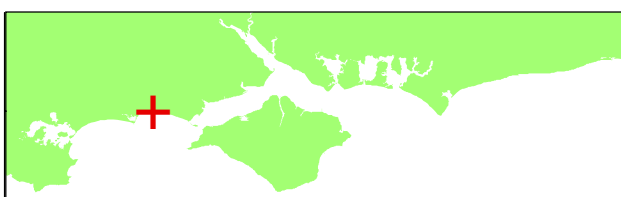
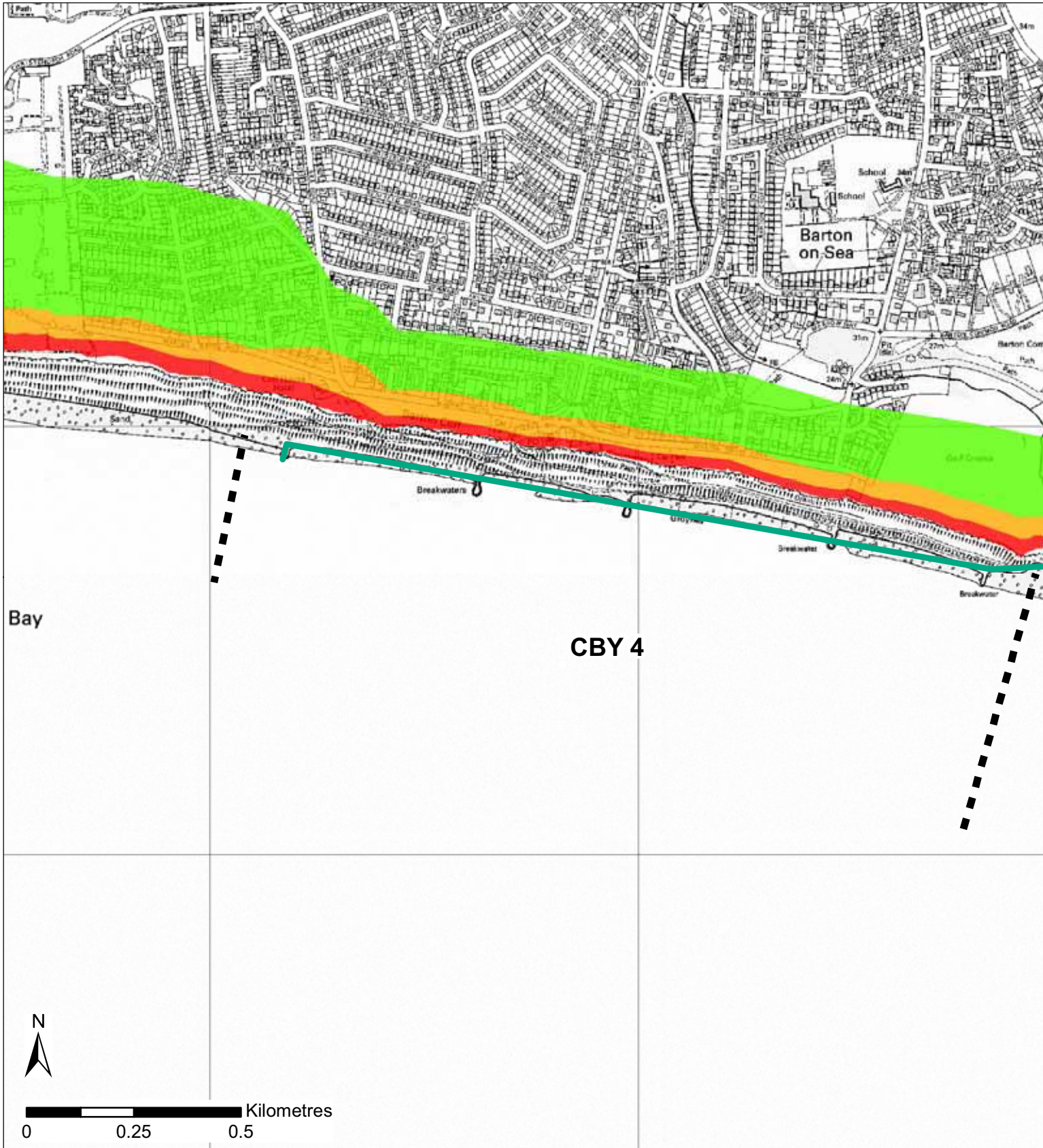




- ■ ■ Policy Unit Boundary
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise



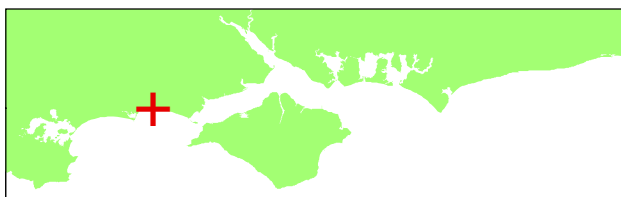
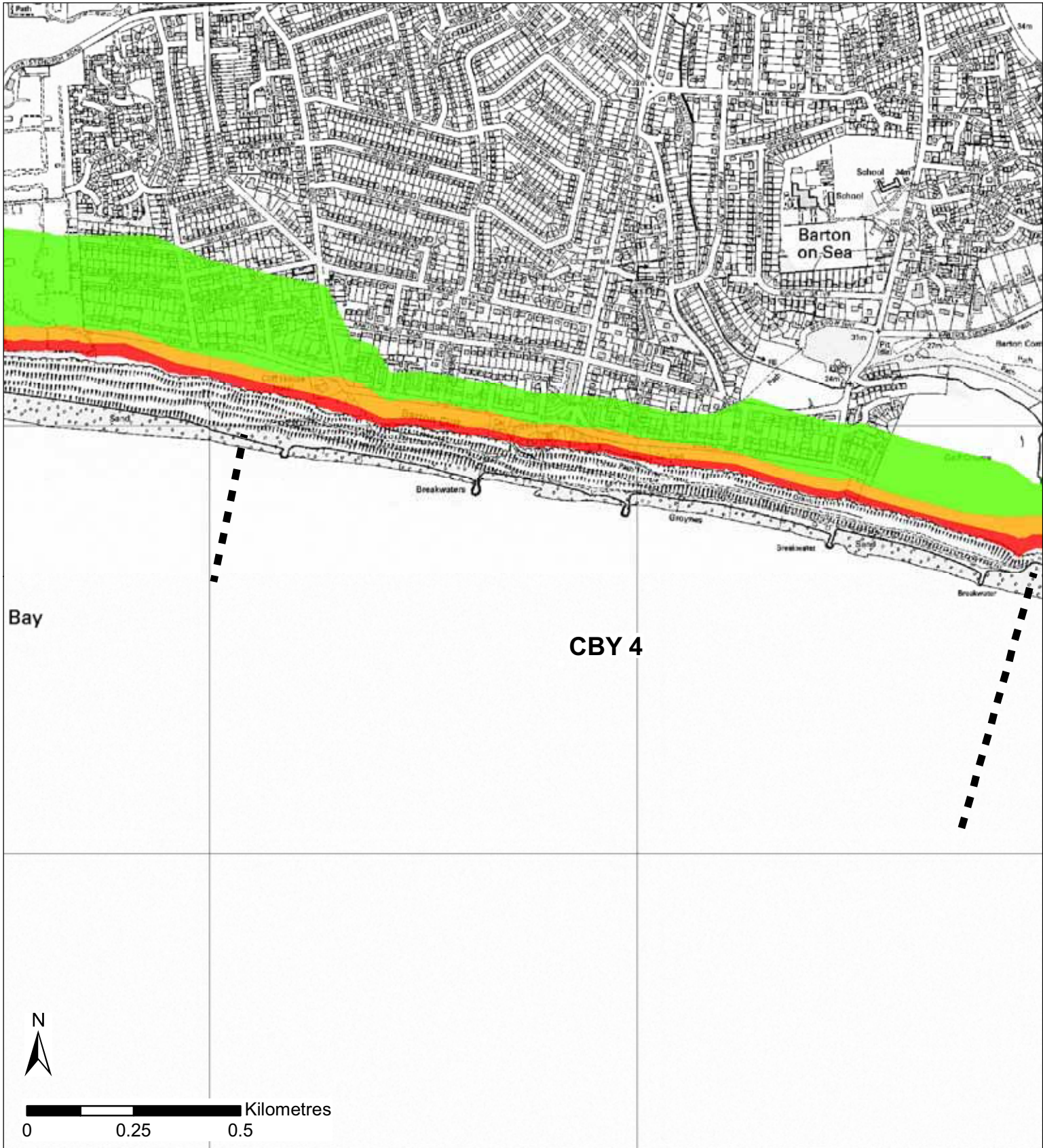
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- ■ | Policy Unit Boundary
- Shoreline Management
- Indicative erosion zone up to 2025
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- 2102 (1:200 yr) Indicative Floodplain with sea level rise

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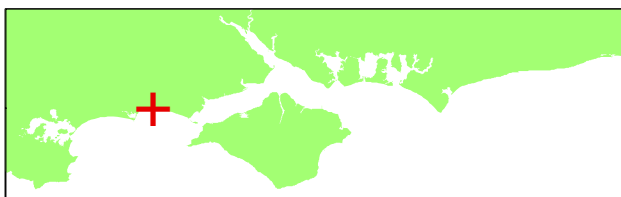
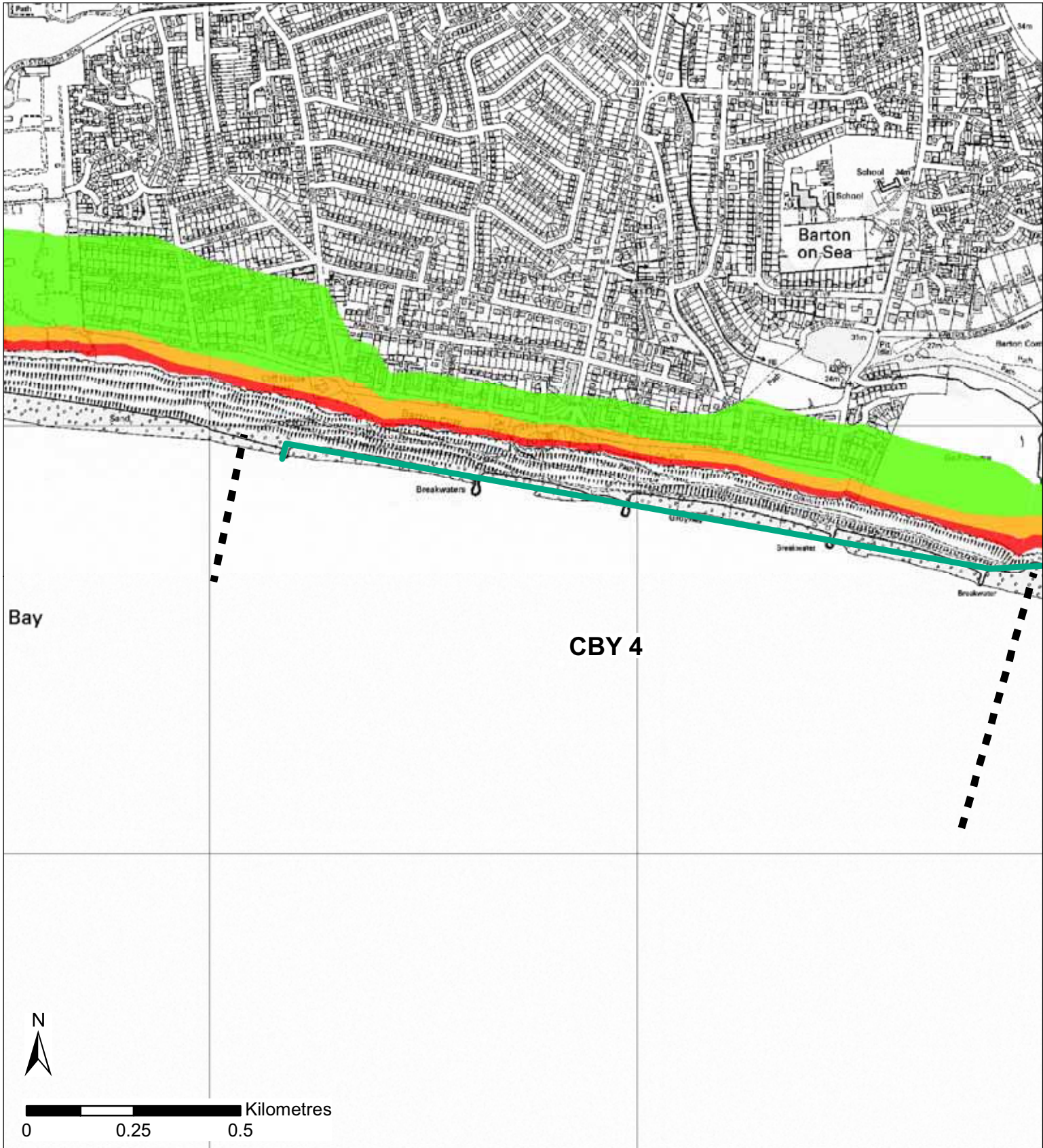




- ■ ■ Policy Unit Boundary
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise

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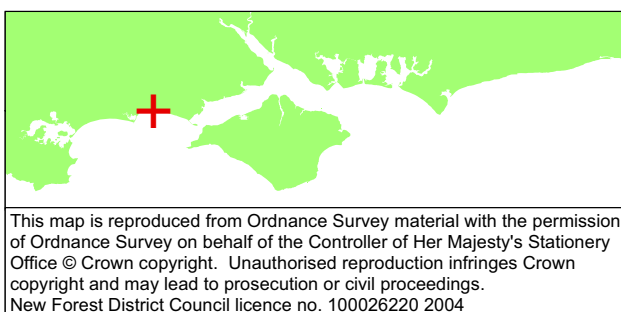
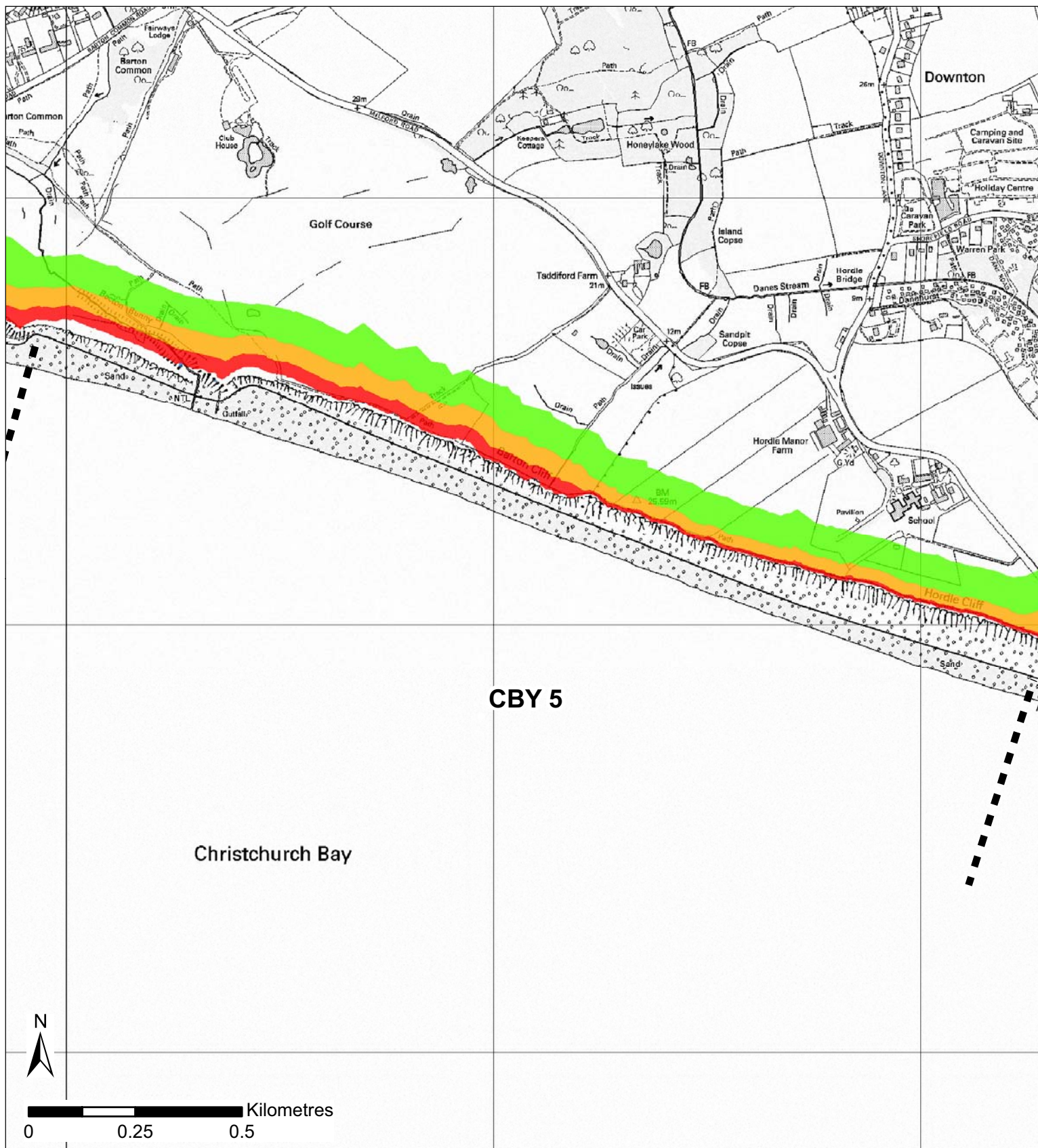





- ■ | Policy Unit Boundary
- Shoreline Management
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise

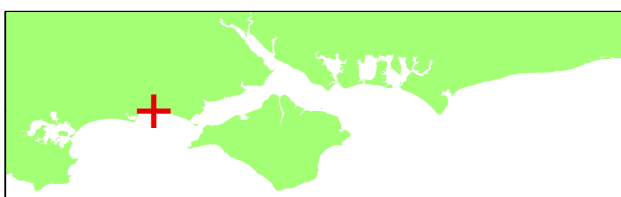
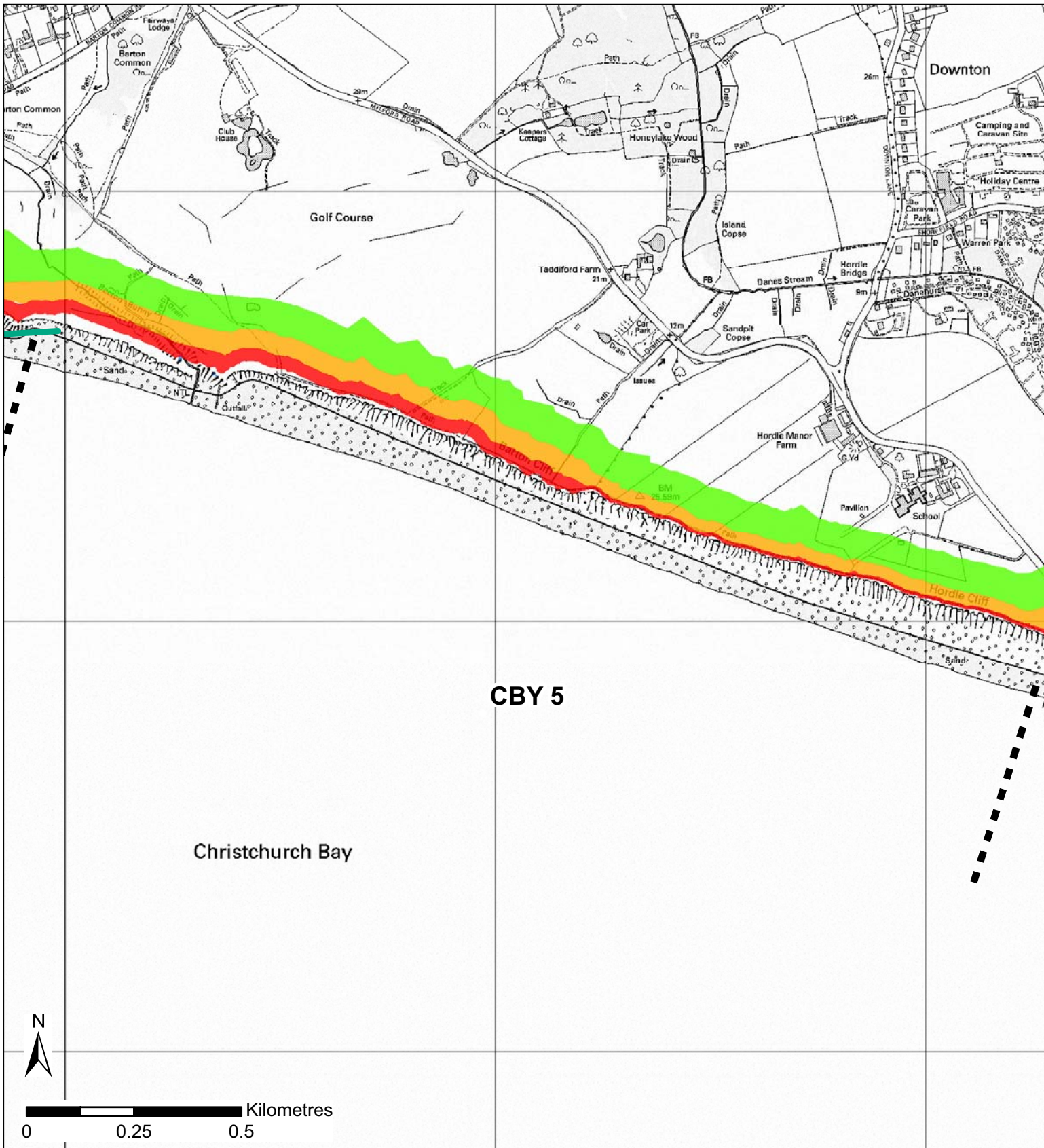
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- ■ ■ Policy Unit Boundary
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise

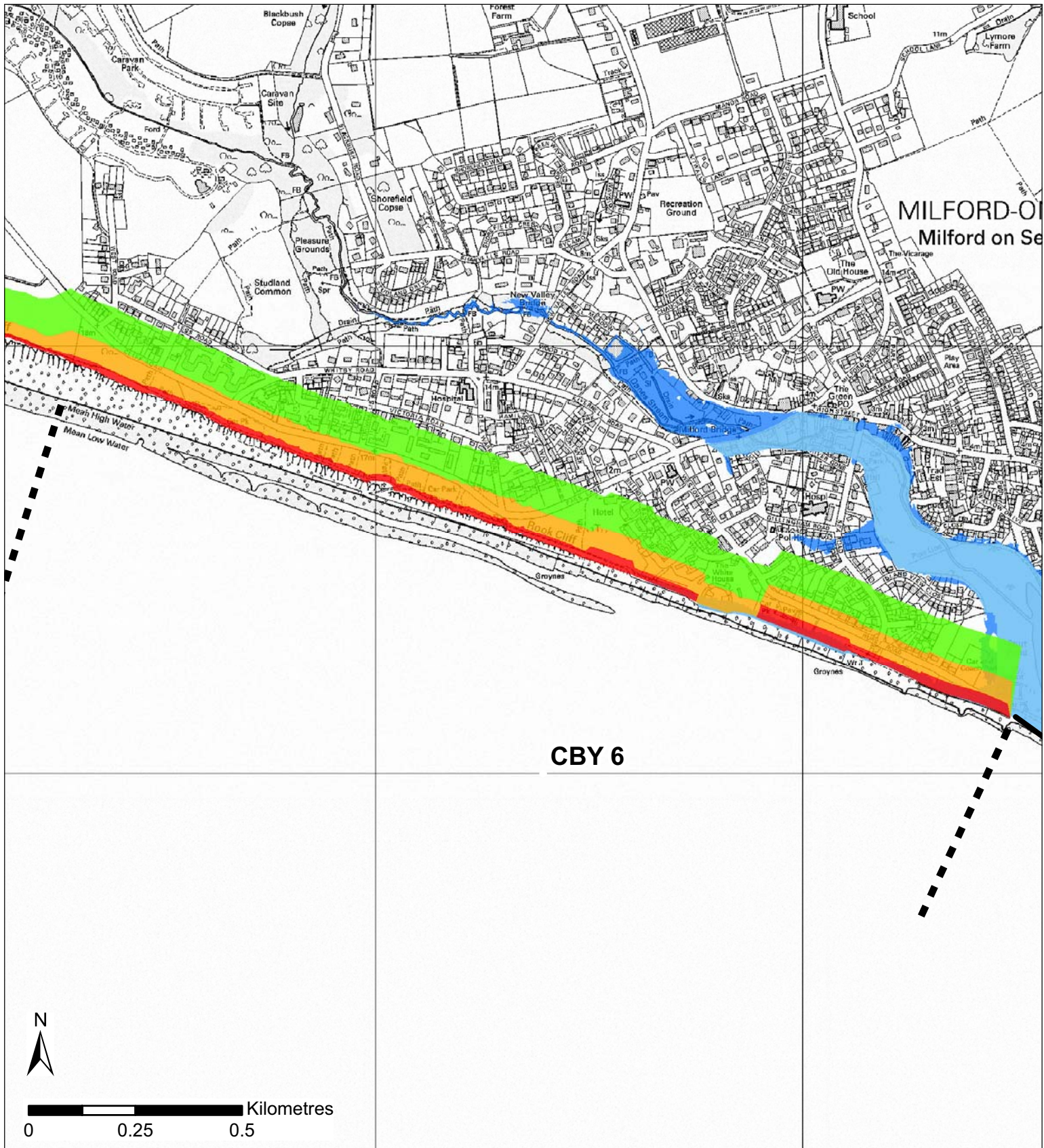




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- ■ | Policy Unit Boundary
- Shoreline Management
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise





CBY 6



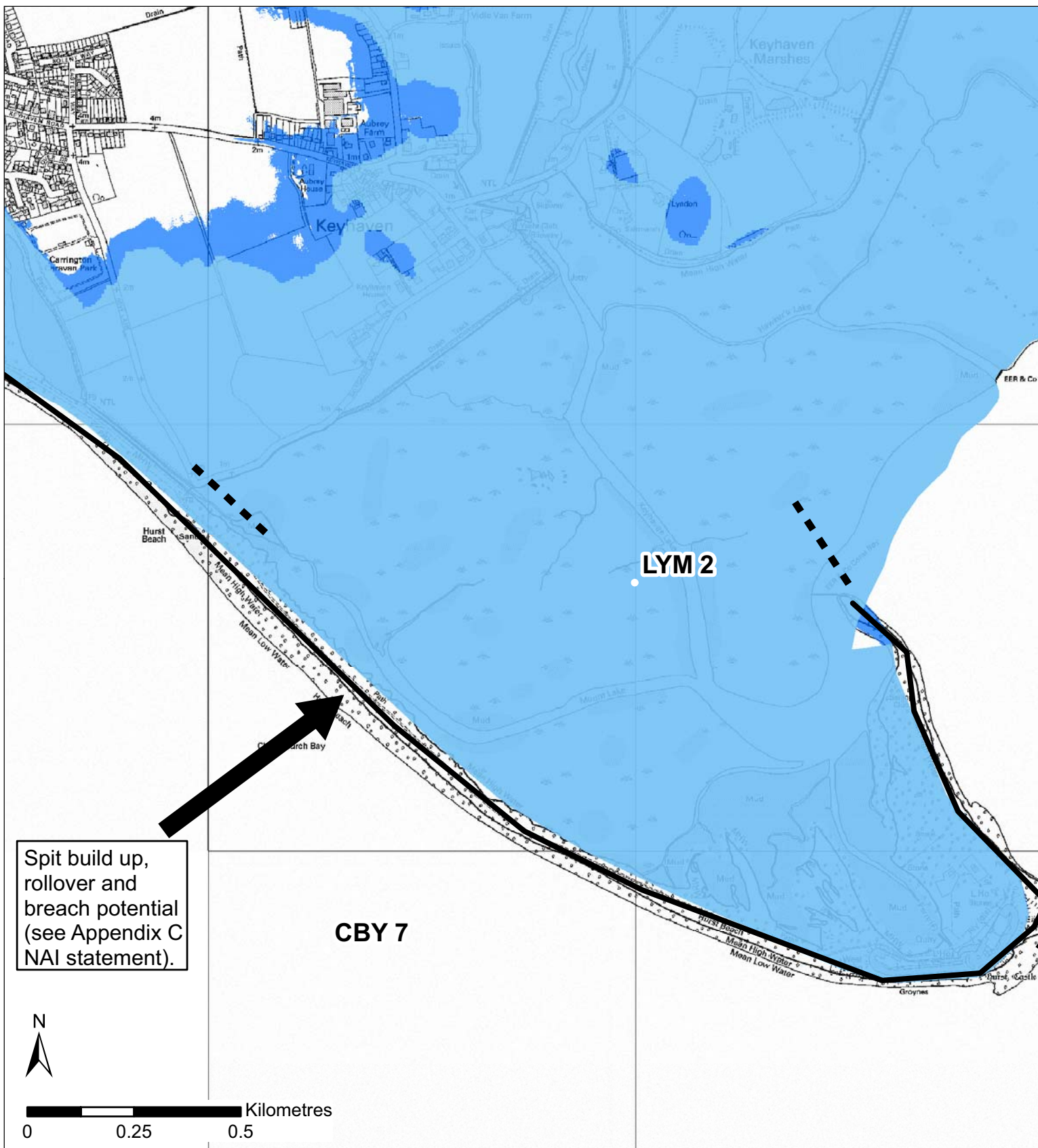
0 0.25 0.5 Kilometres



- ■ ■ Policy Unit Boundary
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise

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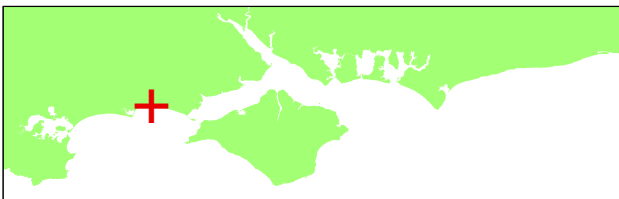
Spit build up, rollover and breach potential (see Appendix C NAI statement).

CBY 7

LYM 2



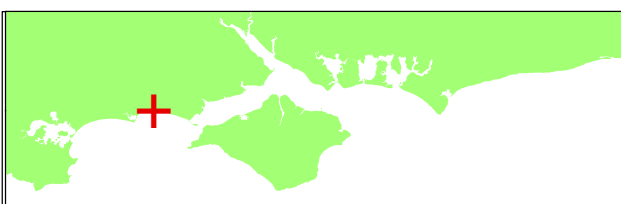
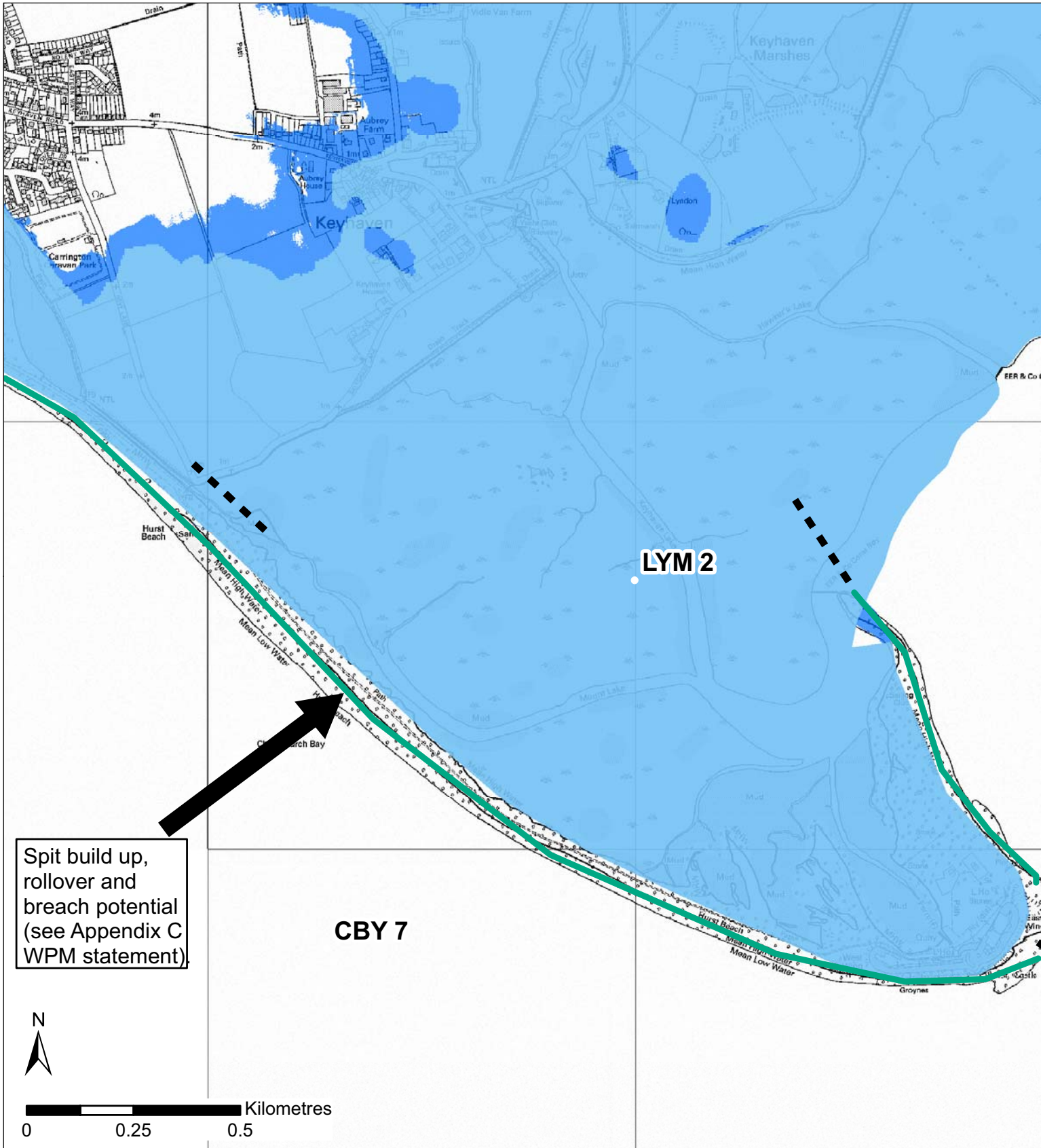
0 0.25 0.5 Kilometres



- Policy Unit Boundary
- Complex coastal processes
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise



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- ■ | Policy Unit Boundary
- Shoreline Management
- Indicative erosion zone up to 2025
- Indicative erosion zone up to 2055
- Indicative erosion zone up to 2105
- 2008 (1:200 yr) Flood Zone 3 © Environment Agency
- 2102 (1:200 yr) Indicative Floodplain with sea level rise



ANNEX 1: RESIDUAL LIFE OF DEFENCES AND EROSION RATES USED FOR MAPPING

MANAGEMENT UNIT	DEFENCE RESIDUAL LIFE (yrs)	AVERAGE RATE OF EROSION (m/yr)	EXTRAPOLATE FOR YEARS (m/yr)			SOURCE	
			20.0	50.0	100.0		
STU3 Eastern Lake	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU3 Eastern Lake to Knoll Beach carpark	N/A	-0.7	-14.0	-35.0	-70.0		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		PDC (SMP1/CCO DATA)
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Knoll Beach carpark to Redend Point	5	-0.64	-9.6	-28.8	-60.8		
STU2 Knoll Beach carpark to Redend Point	5	-0.64	-9.6	-28.8	-60.8		
STU2 Knoll Beach carpark to Redend Point	20	-0.64	0.0	-19.2	-51.2		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Knoll Beach carpark to Redend Point	N/A	-0.64	-12.8	-32.0	-64.0		
STU2 Redend Point to the Warren	N/A	-0.40	-8.0	-20.0	-40.0		
STU2 Redend Point to the Warren	N/A	-0.40	-8.0	-20.0	-40.0		
STU2 Redend Point to the Warren	N/A	-0.40	-8.0	-20.0	-40.0		
STU2 Redend Point to the Warren	N/A	-0.40	-8.0	-20.0	-40.0		
STU2 Redend Point to the Warren	N/A	-0.40	-8.0	-20.0	-40.0		
STU2 Redend Point to the Warren	N/A	-0.23	-4.6	-11.5	-23.0		
STU2 Redend Point to the Warren	N/A	-0.23	-4.6	-11.5	-23.0		
STU2 Redend Point to the Warren	N/A	-0.23	-4.6	-11.5	-23.0		
STU2 Redend Point to the Warren	N/A	-0.23	-4.6	-11.5	-23.0		
STU1	N/A	-0.23	-4.6	-11.5	-23.0	PDC (SMP1)	
STU1	N/A	-0.23	-4.6	-11.5	-23.0		
STU1	N/A	-0.23	-4.6	-11.5	-23.0		
STU1	N/A	-0.23	-4.6	-11.5	-23.0		
STU1	N/A	-0.23	-4.6	-11.5	-23.0		
SWA5	N/A	-0.23	-4.6	-11.5	-23.0	PDC (SMP1)	
SWA5	N/A	-0.23	-4.6	-11.5	-23.0		
SWA5	N/A	-0.23	-4.6	-11.5	-23.0		
SWA5	N/A	-0.23	-4.6	-11.5	-23.0		
SWA5	N/A	-0.23	-4.6	-11.5	-23.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0	CCO ESTIMATES	
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0		

MANAGEMENT UNIT	DEFENCE RESIDUAL LIFE (yrs)	AVERAGE RATE OF EROSION (m/yr)	EXTRAPOLATE FOR YEARS (m/yr)			SOURCE	
			20.0	50.0	100.0		
SWA4	N/A	-0.6	-12.0	-30.0	-60.0	CCO ESTIMATES	
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA3	30	-0.6	0.0	-12.0	-42.0		
SWA2	30	-0.5	0.0	-10.0	-35.0		CCO ESTIMATES
SWA2	30	-0.5	0.0	-10.0	-35.0		
SWA2	30	-0.5	0.0	-10.0	-35.0		
SWA2	30	-0.5	0.0	-10.0	-35.0		
SWA2	30	-0.5	0.0	-10.0	-35.0		
SWA2	30	-0.23	0.0	-4.6	-16.1		
SWA2	30	-0.23	0.0	-4.6	-16.1		
SWA2	30	-0.23	0.0	-4.6	-16.1		
SWA2	30	-0.23	0.0	-4.6	-16.1		
SWA2	30	-0.23	0.0	-4.6	-16.1		
SWA1	30	-0.23	0.0	-4.6	-16.1	CCO ESTIMATES	
SWA1	30	-0.23	0.0	-4.6	-16.1		
SWA1	30	-0.23	0.0	-4.6	-16.1		
DUR3	N/A	-0.23	0.0	-4.6	-16.1	CCO ESTIMATES	
DUR3	N/A	-0.6	-12.0	-30.0	-60.0		
DUR3	N/A	-0.6	-12.0	-30.0	-60.0		
DUR2	N/A	-0.6	-12.0	-30.0	-60.0	CCO ESTIMATES	
DUR1	N/A	-0.6	-12.0	-30.0	-60.0	CCO ESTIMATES	
DUR1	N/A	-0.6	-12.0	-30.0	-60.0		
DUR1	N/A	-0.6	-12.0	-30.0	-60.0		
DUR1	N/A	-0.6	-12.0	-30.0	-60.0		