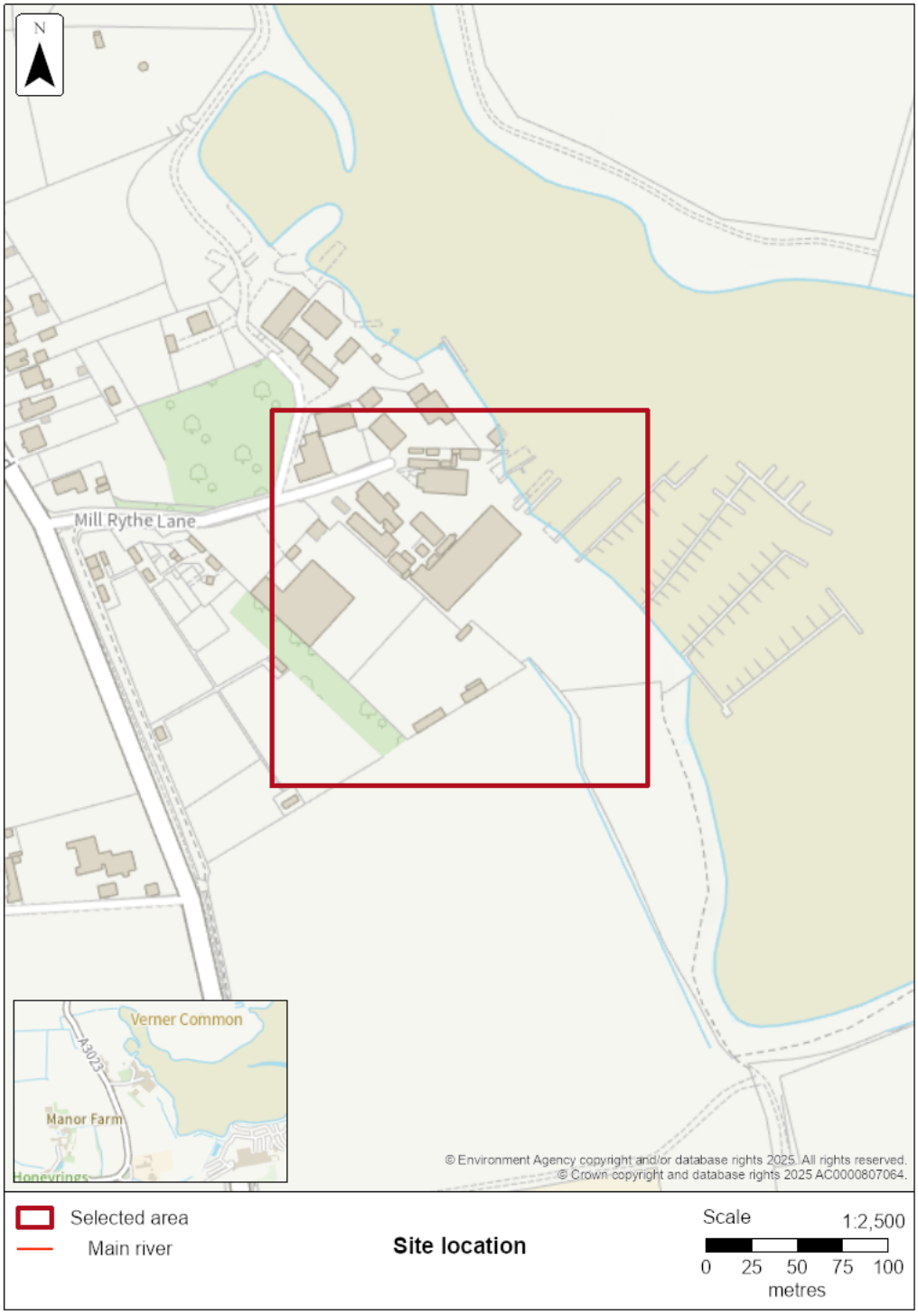
Flood risk assessment data

Location of site: 472594 / 101098 (shown as easting and northing coordinates)
Document created on: 23 October 2025
This information was previously known as a product 4.
Customer reference number: 8KDHYFAPKGV5 / EIR2025/37891

Map showing the location that flood risk assessment data has been requested for.



How to use this information

You can use this information as part of a flood risk assessment for a planning application. To do this, you should include it in the appendix of your flood risk assessment.

We recommend that you work with a flood risk consultant to get your flood risk assessment.

Included in this document

In this document you'll find:

- how to find information about surface water and other sources of flooding
- information on the models used
- definitions for the terminology used throughout
- flood map for planning (rivers and the sea)
- past floods
- flood defences and attributes
- information to help you assess if there is a reduced flood risk from rivers and the sea because of defences
- modelled data
- information about strategic flood risk assessments
- information about this data
- information about flood risk activity permits
- help and advice

Surface water and other sources of flooding

When using the surface water map on the check your long term flood risk service the following considerations apply:

- surface water extents are suitable for use in planning
- surface water climate change scenarios may help to inform risk assessments, but the available data fall short of what is required to assess planned development
- surface water depth information should not be used for planning purposes

To find out about other factors that might affect the flood risk of this location, you should also check:

- reservoir flood risk
- groundwater flood risk - you could use the British Geological Survey groundwater flooding data, groundwater: current status and flood risk and the guide on mining and groundwater constraints for development - further information may be available from the lead local flood authority (LLFA)
- your local planning authority's SFRA, which includes future flood risk

Your Lead Local Flood Authority is Hampshire County.

For information about sewer flooding, contact the relevant water company for the area.

About the models used

Model name: Hayling Island 2018 - East Solent Model
Scenario(s): Defended tidal, defences removed tidal, defended climate change tidal, defences removed climate change tidal
Date: 1 July 2018

Terminology used

Annual exceedance probability (AEP)

This refers to the probability of a flood event occurring in any year. The probability is expressed as a percentage. For example, a large flood which is calculated to have a 1% chance of occuring in any one year, is described as 1% AEP.

Metres above ordnance datum (mAOD)

All flood levels are given in metres above ordnance datum which is defined as the mean sea level at Newlyn, Cornwall.

Flood map for planning (rivers and the sea)

Your selected location is in flood zone 3.

Flood zone 3 shows the area at risk of flooding for an undefended flood event with a:

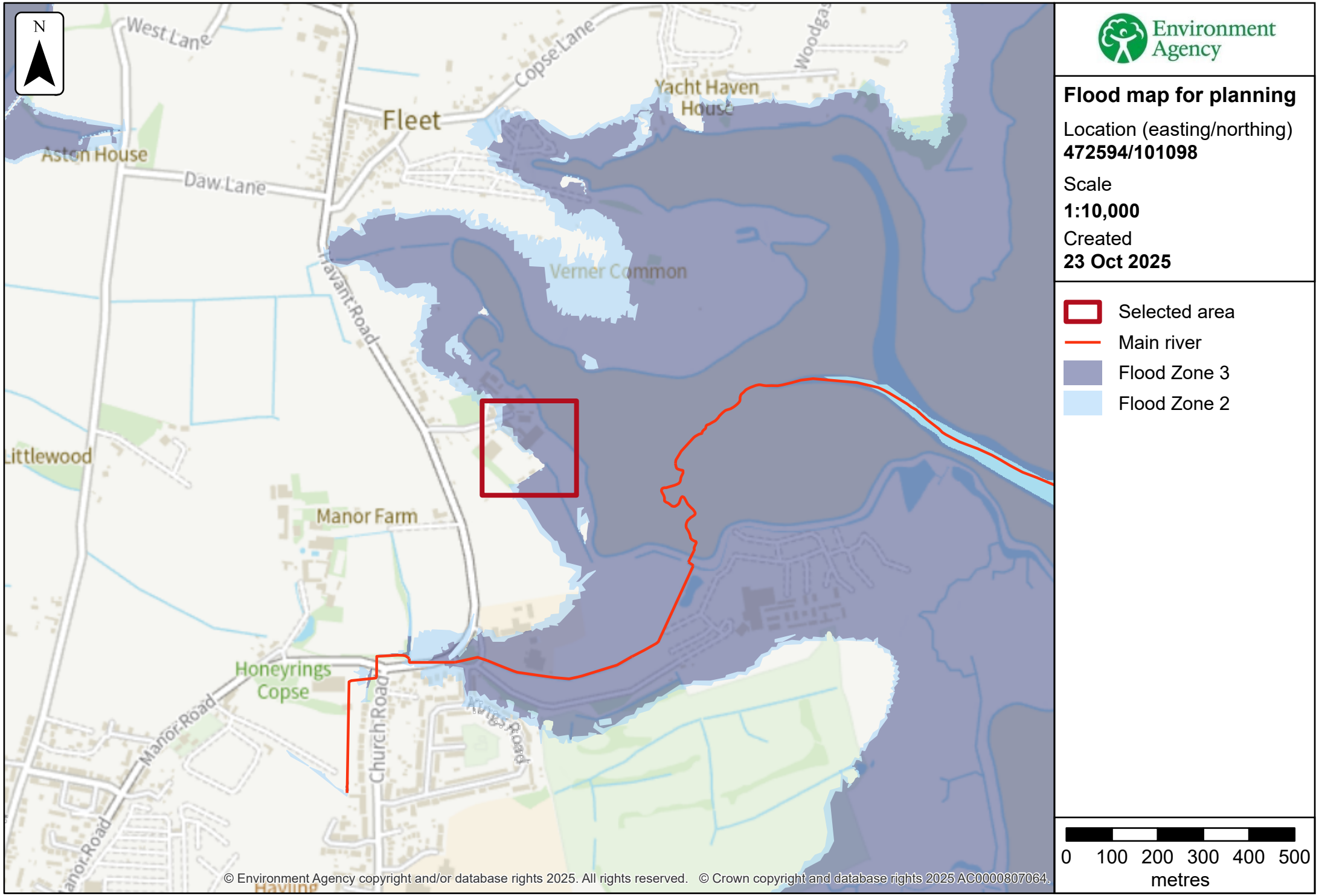
- 0.5% or greater probability of occurring in any year for flooding from the sea
- 1% or greater probability of occurring in any year for fluvial (river) flooding

Flood zone 2 shows the area at risk of flooding for an undefended flood event with:

- between a 0.1% and 0.5% probability of occurring in any year for flooding from the sea
- between a 0.1% and 1% probability of occurring in any year for fluvial (river) flooding

It's important to remember that the flood zones on this map:

- refer to the land at risk of flooding and do not refer to individual properties
- refer to the probability of river and sea flooding, ignoring the presence of defences
- do not take into account potential impacts of climate change


N
West Lane
Copse Lane
Fleet
Yacht Haven
House
Aston House
Daw Lane
Verner Common
Havant Road
Littlewood
Manor Farm
Honeyrings
Copse
Manor Road
Church Road
Environment Agency
Flood map for planning
Location (easting/northing)
472594/101098
Scale
1:10,000
Created
23 Oct 2025
Selected area
Main river
Flood Zone 3
Flood Zone 2
0 100 200 300 400 500
metres
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Past floods

Past flood events included in this document

The recorded flood outlines included in this document are for areas of land local to your site location that have been flooded by any of these sources:

- ephemeral water
- main rivers
- ordinary watercourses
- the sea
- unknown

Data limitations

The outlines do not include flooding from:

- drainage where rainfall has led to surface water ponding or overland runoff
- artificial, water-bearing sewer, water supply and wastewater treatment pipelines

Changes to flood defences

The defences (also known as assets) that were in place may also have changed. For example, assets may have been built more recently than the last recorded flood outline.

What the recorded flood outlines dataset is

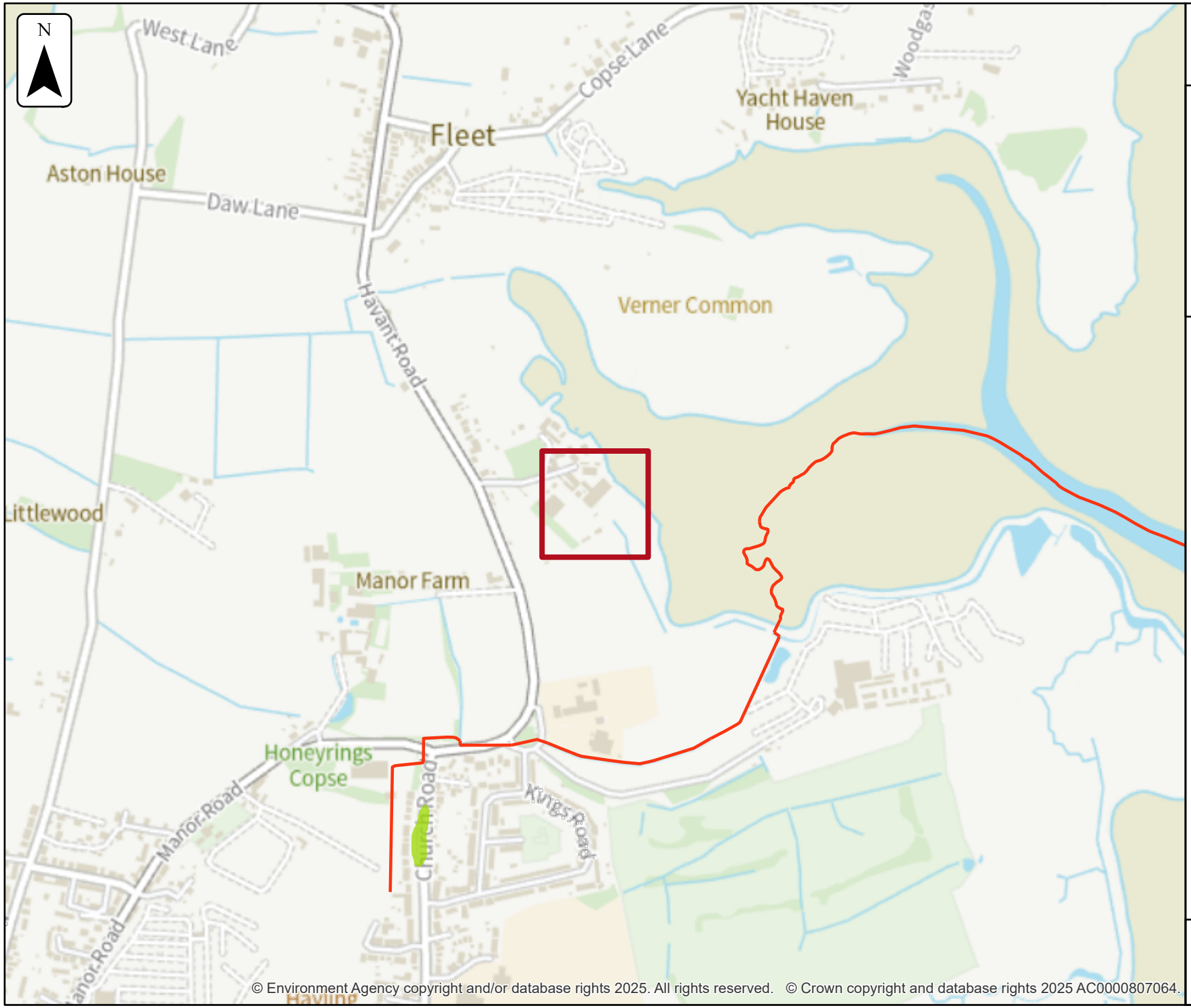
The recorded flood outlines are a geographical information system (GIS) data layer that show our verified records of areas that have flooded in the past from:

- rivers
- the sea
- groundwater
- surface water

Download the complete recorded flood outlines dataset, which includes data quality flags for outlines recorded after April 2020. This indicates the confidence we have in an outline.

Get flood information from other organisations

Contact Hampshire County Lead Local Flood Authority (LLFA) and your drainage board to get information about past flooding caused by surface water or drainage systems.



Environment Agency

Past floods

Location (easting/northing)
472594/101098

Scale
1:10,000

Created
23 Oct 2025

Selected area

Main river

Date of flood event

October, 2000

0 100 200 300 400 500
metres

Data on past flood events

Start date	End date	Source of flood	Cause of flood	Affects location
30 October 2000	30 October 2000	unknown	unknown	No

Flood defences and attributes

The flood defences map shows the location of the flood defences present.

The flood defences data table shows the type of defences, their condition and the standard of protection. It shows the height above sea level of the top of the flood defence (crest level). The height is In mAOD which is the metres above the mean sea level at Newlyn, Cornwall.

It's important to remember that flood defence data may not be updated on a regular basis. The information here is based on the best available data.

Use this information:

- to help you assess if there is a reduced flood risk for this location because of defences
- with any information in the modelled data section to find out the impact of defences on flood risk

Environment Agency

Flood defences

Location (easting/northing)
472594/101098

Scale
1:2,500

Created
23 Oct 2025

Selected area
Main river
Flood defence

0 25 50 75 100
metres

Flood defences data

Label	Asset ID	Asset Type	Standard of protection (years)	Current condition	Downstream actual crest level (mAOD)	Upstream actual crest level (mAOD)	Effective crest level (mAOD)
1	470273	Quay					3.0
2	131462	Embankment	200				3.30
3	470280	Embankment					3.60
4	392353	Embankment		Fair	3.40	3.40	3.40

Any blank cells show where a particular value has not been recorded for an asset.

Modelled data

This section provides details of different scenarios we have modelled and includes the following (where available):

- outline maps showing the area at risk from flooding in different modelled scenarios
- map(s) showing the approximate water levels for the return period with the largest flood extent for a scenario and table(s) of sample points providing details of the flood risk for different return periods

Climate change

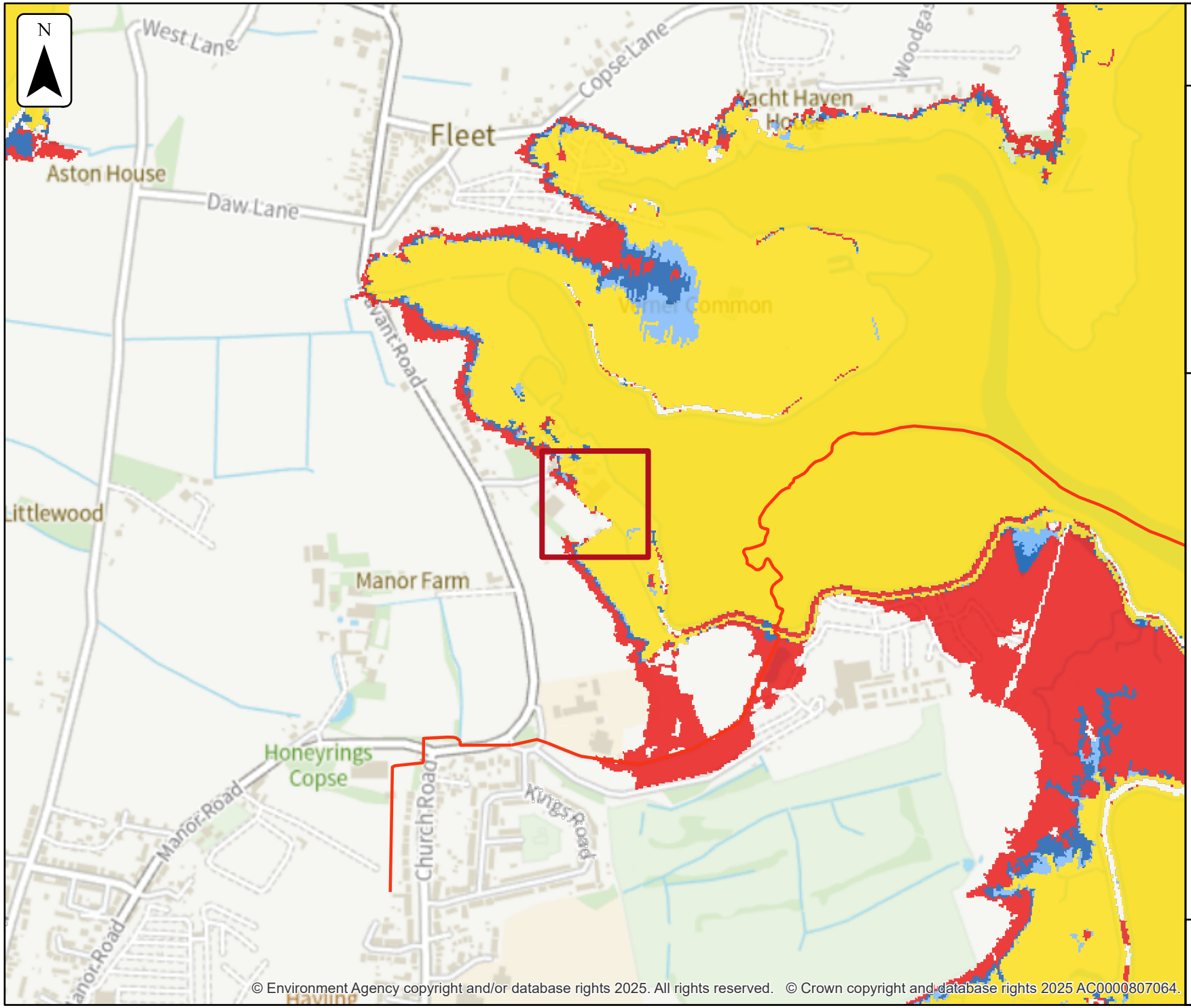
The climate change data included in the models may not include the latest flood risk assessment climate change allowances. Where the new allowances are not available you will need to consider this data and factor in the new allowances to demonstrate the development will be safe from flooding.

The Environment Agency will incorporate the new allowances into future modelling studies. For now, it's your responsibility to demonstrate that new developments will be safe in flood risk terms for their lifetime.

Modelled scenarios

The following scenarios are included:

- Defended modelled tidal: risk of flooding from the sea where there are flood defences
- Defences removed modelled tidal: risk of flooding from the sea where flood defences have been removed
- Defended climate change modelled tidal: risk of flooding from the sea where there are flood defences, including estimated impact of climate change
- Defences removed climate change modelled tidal: risk of flooding from the sea where flood defences have been removed, including estimated impact of climate change



Environment Agency

Defended modelled tidal extent

Location (easting/northing)
472594/101098

Scale
1:10,000

Created
23 Oct 2025

Model name
Hayling Island 2018 East Solent Model

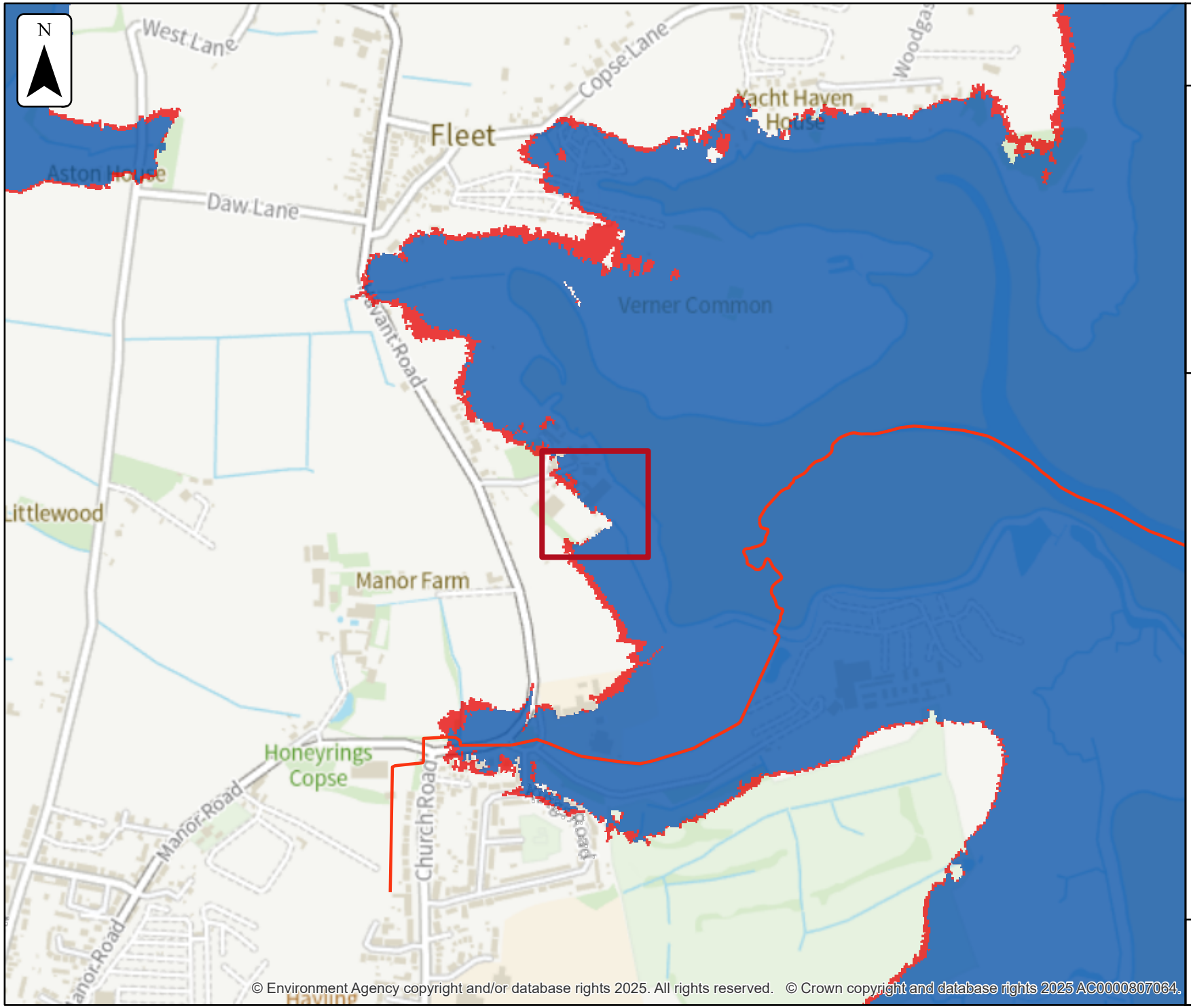
- Selected area
- Main river

Modelled flood extent

- 1.33% AEP
- 1% AEP
- 0.5% AEP
- 0.1% AEP

Flood extents may not be visible where they overlap other return periods

0 100 200 300 400 500
metres



Environment Agency

Defences removed modelled tidal extent

Location (easting/northing)
472594/101098

Scale
1:10,000

Created
23 Oct 2025

Model name
Hayling Island 2018 East Solent Model

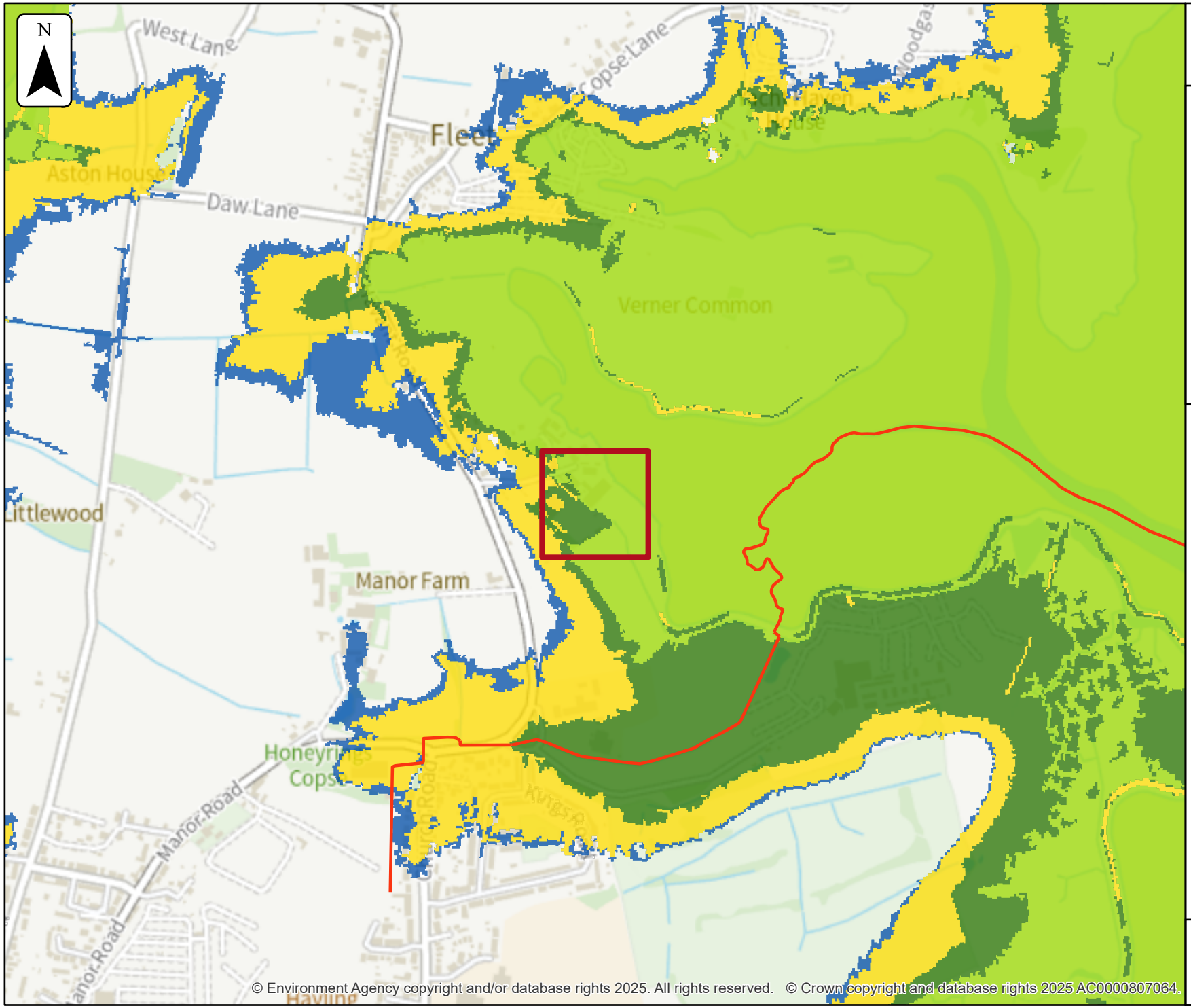
- Selected area
- Main river

Modelled flood extent

- 0.5% AEP
- 0.1% AEP

Flood extents may not be visible where they overlap other return periods

0 100 200 300 400 500
metres



Environment Agency

Defended climate change modelled tidal extent

Location (easting/northing)
472594/101098

Scale
1:10,000

Created
23 Oct 2025

Model name
Hayling Island 2018 East Solent Model

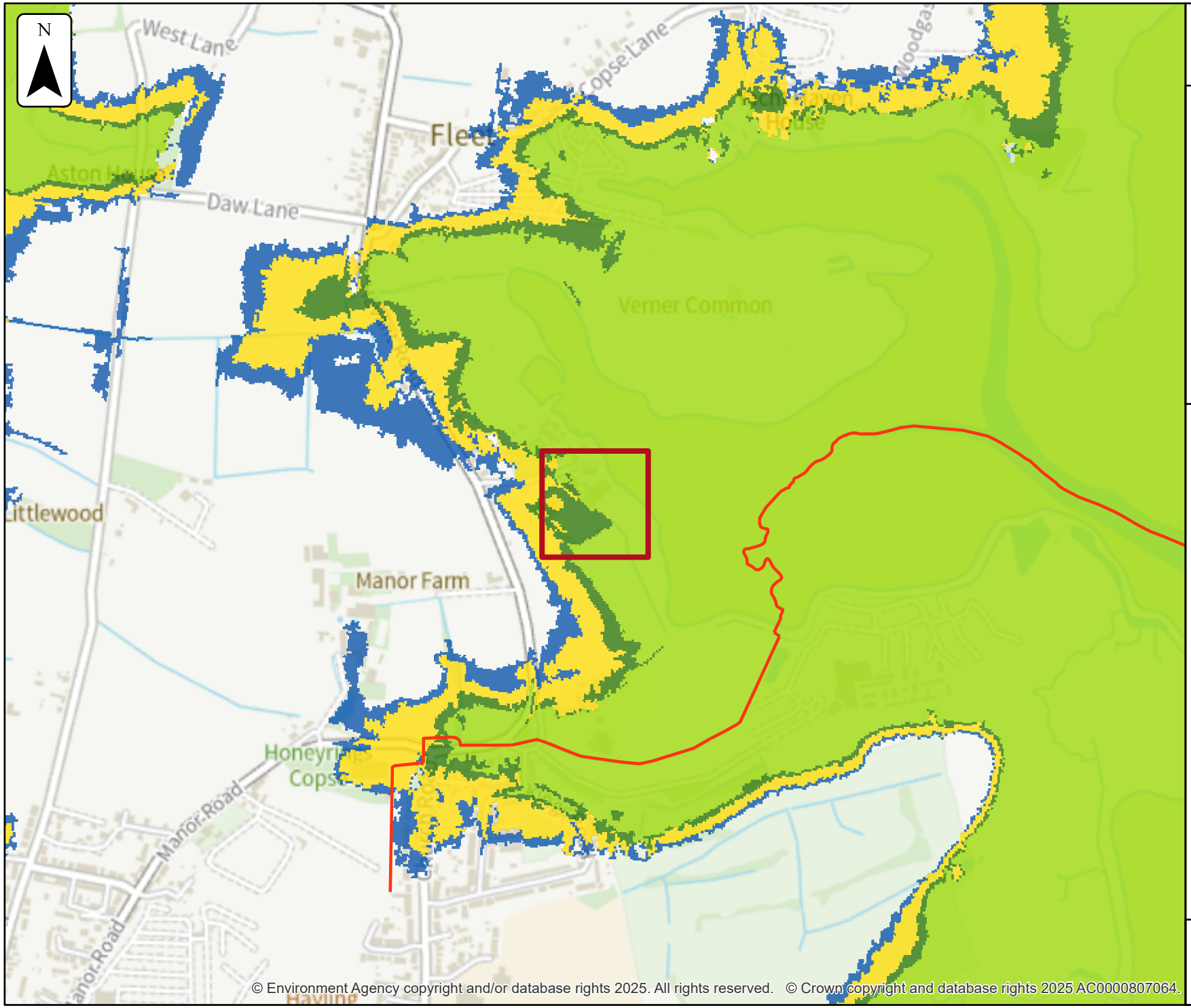
- Selected area
- Main river

Modelled flood extent

- 0.5% AEP (+90mm)
- 0.5% AEP (+320mm)
- 0.5% AEP (+744mm)
- 0.1% AEP (+320mm)
- 0.1% AEP (+744mm)

Flood extents may not be visible where they overlap other return periods

0 100 200 300 400 500
metres



Environment Agency

Defences removed climate change modelled tidal extent

Location (easting/northing)
472594/101098

Scale
1:10,000

Created
23 Oct 2025

Model name
Hayling Island 2018 East Solent Model

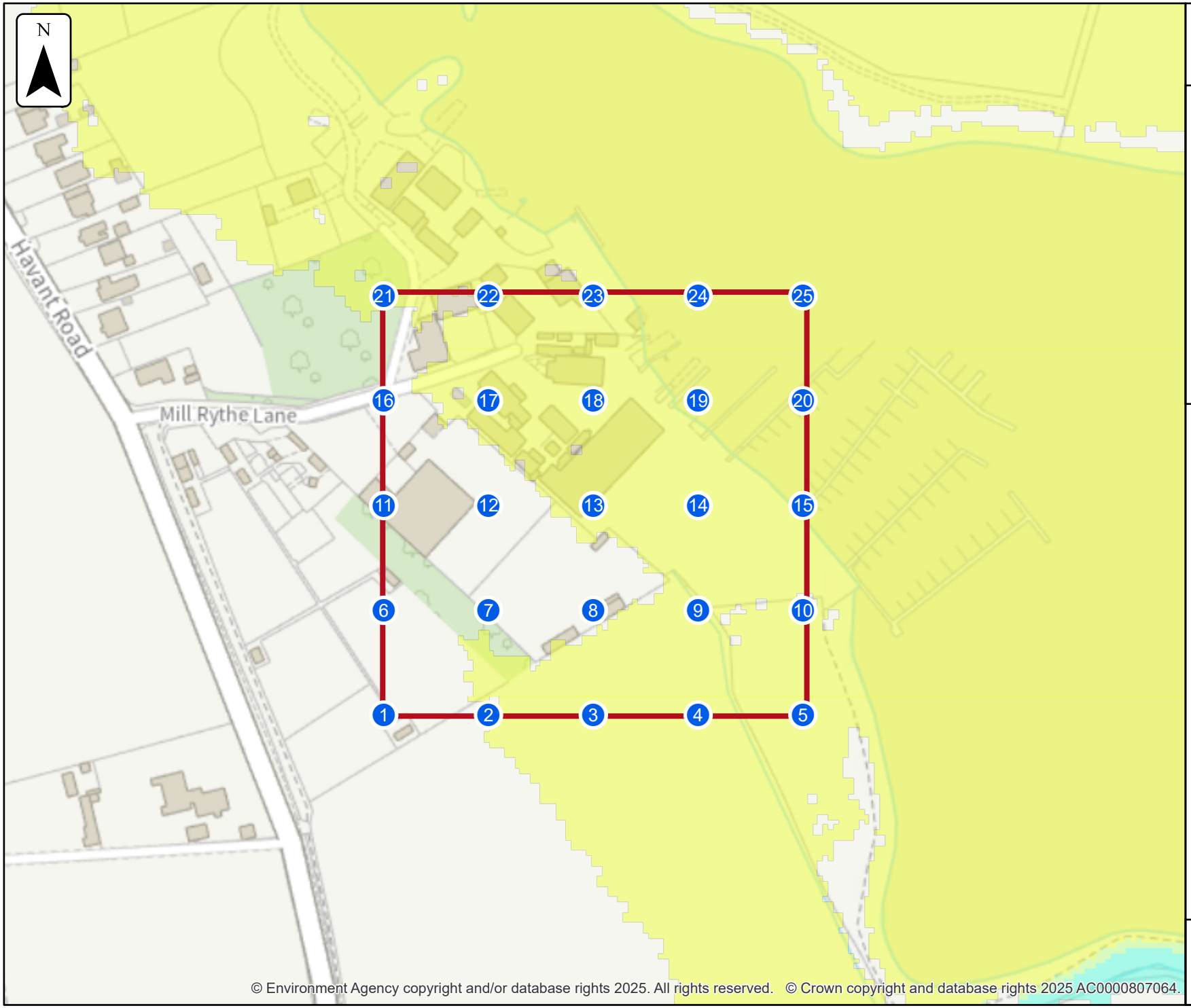
- Selected area
- Main river

Modelled flood extent

- 0.5% AEP (+90mm)
- 0.5% AEP (+320mm)
- 0.5% AEP (+744mm)
- 0.1% AEP (+320mm)
- 0.1% AEP (+744mm)

Flood extents may not be visible where they overlap other return periods

0 100 200 300 400 500
metres



Environment Agency

Defended modelled tidal extent and height

Location (easting/northing)
472594/101098

Scale
1:2,500

Created
23 Oct 2025

Model name
Hayling Island 2018 East Solent Model

Selected area

Main river

Modelled 2D grid
Water level in mAOD

- -1 - -0.125
- -0.125 - 0.75
- 0.75 - 1.625
- 1.625 - 2.5
- 2.5 - 3.375
- 3.375 - 4.25
- 4.25 - 5.125
- 5.125 - 6.0
- 6.0 - 6.875

This map shows the 0.1% AEP height data

0 25 50 75 100
metres

Sample point data

Defended

Label	Easting	Northing	10% AEP	4% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.2% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height
1	472491	100995	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	472542	100995	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	472593	100995	3.02	3.20	3.21	3.32	3.35	3.42	3.53	3.61
4	472644	100995	3.02	3.20	3.21	3.32	3.35	3.42	3.53	3.61
5	472695	100995	3.02	3.20	3.21	3.32	3.35	3.43	3.53	3.61
6	472491	101046	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
7	472542	101046	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	472593	101046	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	472644	101046	3.02	3.19	3.21	3.32	3.35	3.42	3.53	3.61
10	472695	101046	3.02	3.29	3.30	3.37	3.35	3.44	3.53	3.61
11	472491	101097	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	472542	101097	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	10% AEP	4% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.2% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height
13	472593	101097	3.10	3.19	3.21	3.32	3.35	3.42	3.53	3.61
14	472644	101097	3.10	3.20	3.21	3.32	3.35	3.42	3.53	3.61
15	472695	101097	3.10	3.20	3.21	3.32	3.35	3.42	3.53	3.61
16	472491	101148	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	472542	101148	NoData	NoData	NoData	NoData	NoData	NoData	NoData	3.61
18	472593	101148	3.10	3.20	3.21	3.32	3.35	3.42	3.53	3.61
19	472644	101148	3.10	3.20	3.21	3.32	3.35	3.42	3.53	3.61
20	472695	101148	3.10	3.20	3.21	3.32	3.35	3.42	3.53	3.61
21	472491	101199	NoData	NoData	NoData	NoData	NoData	NoData	3.53	3.61
22	472542	101199	NoData	NoData	NoData	3.32	3.35	3.43	3.53	3.61
23	472593	101199	3.10	3.20	3.21	3.32	3.35	3.42	3.53	3.61
24	472644	101199	3.10	3.20	3.21	3.32	3.35	3.42	3.53	3.61

Label	Easting	Northing	10% AEP	4% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.2% AEP	0.1% AEP
			Height	Height	Height	Height	Height	Height	Height	Height
25	472695	101199	3.10	3.20	3.21	3.32	3.35	3.42	3.53	3.61
Max value in selected area:			3.10	3.68	3.68	3.68	3.35	3.70	3.54	3.61

Data in this table comes from the Hayling Island 2018 - East Solent Model model. Height values are shown in mAOD, and depth values are shown in metres.
Any blank cells show where a particular scenario has not been modelled for this location.
Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Defended

Label	Easting	Northing	10% AEP	4% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.2% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
1	472491	100995	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
2	472542	100995	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
3	472593	100995	0.17	0.35	0.36	0.47	0.50	0.58	0.68	0.76
4	472644	100995	0.61	0.79	0.80	0.91	0.94	1.02	1.13	1.20
5	472695	100995	1.01	1.19	1.21	1.31	1.35	1.42	1.53	1.60
6	472491	101046	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
7	472542	101046	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
8	472593	101046	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
9	472644	101046	0.67	0.85	0.87	0.98	1.01	1.08	1.19	1.27
10	472695	101046	0.35	0.52	0.53	0.60	0.58	0.67	0.76	0.84
11	472491	101097	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
12	472542	101097	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData

Label	Easting	Northing	10% AEP	4% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.2% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
13	472593	101097	0.08	0.18	0.20	0.30	0.33	0.41	0.52	0.59
14	472644	101097	0.26	0.36	0.37	0.48	0.51	0.58	0.69	0.77
15	472695	101097	2.62	2.72	2.73	2.84	2.87	2.94	3.05	3.13
16	472491	101148	NoData	NoData	NoData	NoData	NoData	NoData	NoData	NoData
17	472542	101148	NoData	NoData	NoData	NoData	NoData	NoData	NoData	0.25
18	472593	101148	0.36	0.46	0.48	0.58	0.61	0.69	0.80	0.87
19	472644	101148	2.18	2.28	2.30	2.40	2.43	2.51	2.62	2.69
20	472695	101148	3.09	3.19	3.20	3.31	3.34	3.41	3.52	3.60
21	472491	101199	NoData	NoData	NoData	NoData	NoData	NoData	0.02	0.10
22	472542	101199	NoData	NoData	NoData	0.12	0.14	0.21	0.32	0.40
23	472593	101199	0.36	0.46	0.47	0.58	0.61	0.68	0.79	0.87
24	472644	101199	2.44	2.54	2.55	2.66	2.69	2.76	2.87	2.95

Label	Easting	Northing	10% AEP	4% AEP	3.33% AEP	1.33% AEP	1% AEP	0.5% AEP	0.2% AEP	0.1% AEP
			Depth	Depth	Depth	Depth	Depth	Depth	Depth	Depth
25	472695	101199	2.92	3.02	3.04	3.14	3.17	3.24	3.35	3.43
Max value in selected area:			3.91	4.01	4.03	4.13	4.16	4.24	4.35	4.42

Data in this table comes from the Hayling Island 2018 - East Solent Model model. Height values are shown in mAOD, and depth values are shown in metres.
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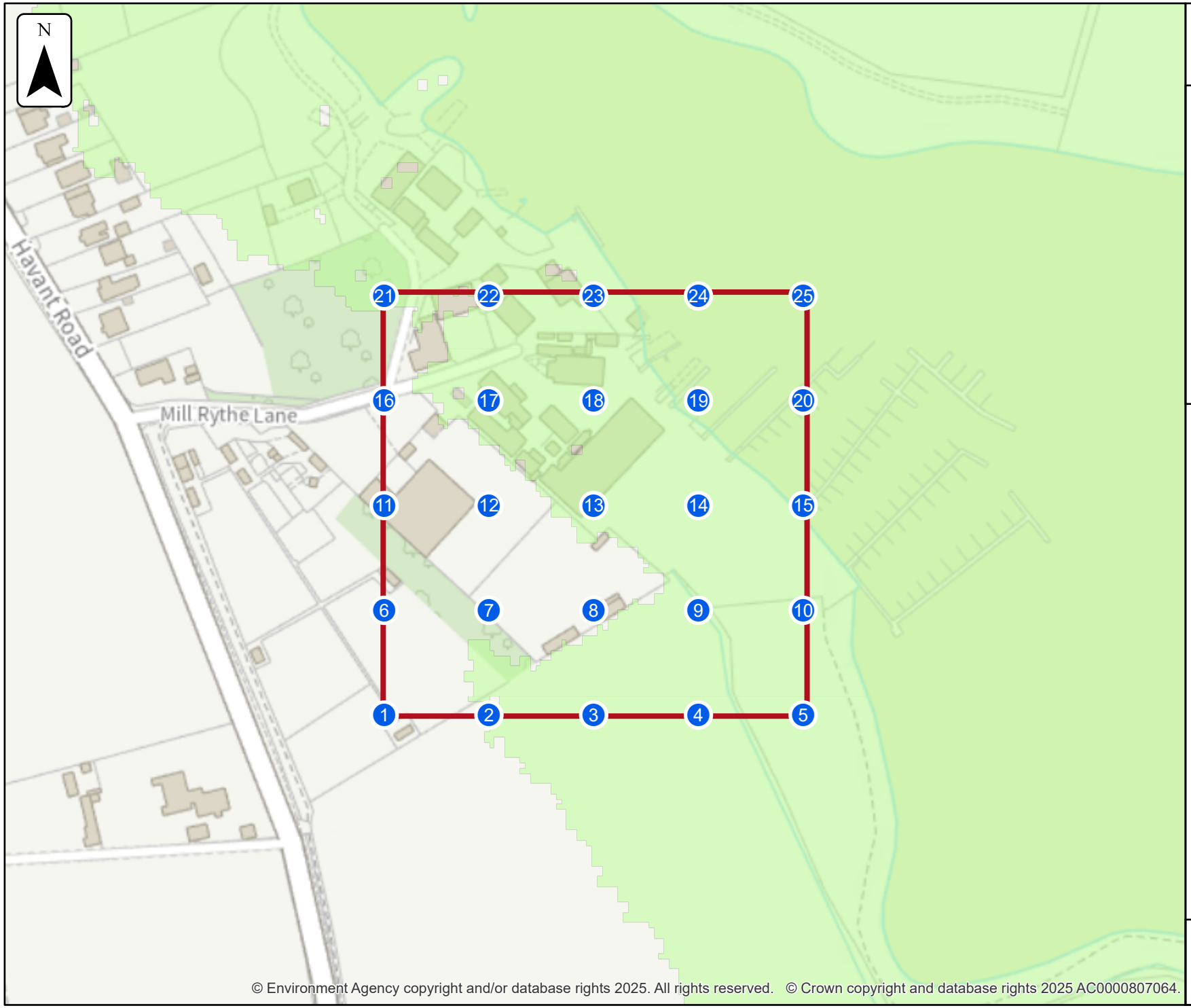
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.



Environment Agency

Defences removed modelled tidal extent and height

Location (easting/northing)
472594/101098

Scale
1:2,500

Created
23 Oct 2025

Model name
Hayling Island 2018 East Solent Model

Selected area

Main river

Modelled 2D grid
Water level in mAOD

- 0 - 0.75
- 0.75 - 1.5
- 1.5 - 2.25
- 2.25 - 3.0
- 3.0 - 3.75
- 3.75 - 4.5
- 4.5 - 5.25
- 5.25 - 6.0
- 6.0 - 6.75

This map shows the 0.1% AEP height data

0 25 50 75 100
metres

Sample point data

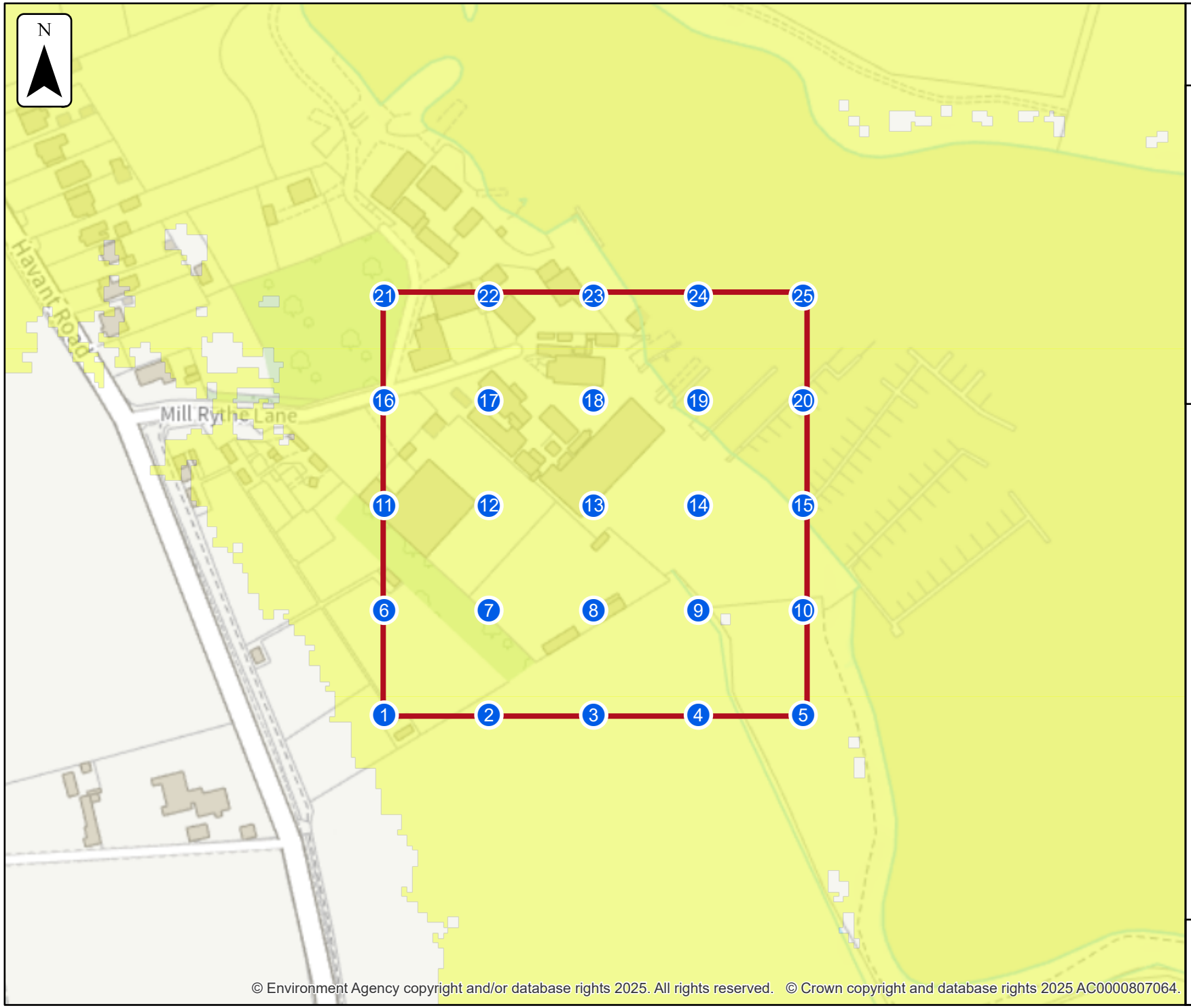
Defences removed

Label	Easting	Northing	0.5% AEP	0.1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Depth	Depth
1	472491	100995	NoData	NoData	NoData	NoData
2	472542	100995	NoData	NoData	NoData	NoData
3	472593	100995	3.42	3.59	0.57	0.74
4	472644	100995	3.42	3.59	1.01	1.19
5	472695	100995	3.42	3.59	1.41	1.59
6	472491	101046	NoData	NoData	NoData	NoData
7	472542	101046	NoData	NoData	NoData	NoData
8	472593	101046	NoData	NoData	NoData	NoData
9	472644	101046	3.42	3.59	1.08	1.25
10	472695	101046	3.42	3.59	1.01	1.18
11	472491	101097	NoData	NoData	NoData	NoData
12	472542	101097	NoData	NoData	NoData	NoData

Label	Easting	Northing	0.5% AEP	0.1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Depth	Depth
13	472593	101097	3.42	3.59	0.40	0.58
14	472644	101097	3.42	3.59	0.58	0.75
15	472695	101097	3.42	3.59	2.94	3.11
16	472491	101148	NoData	NoData	NoData	NoData
17	472542	101148	NoData	3.59	NoData	0.23
18	472593	101148	3.42	3.59	0.68	0.86
19	472644	101148	3.42	3.59	2.50	2.68
20	472695	101148	3.42	3.59	3.41	3.58
21	472491	101199	NoData	3.60	NoData	0.08
22	472542	101199	3.42	3.59	0.21	0.38
23	472593	101199	3.42	3.59	0.68	0.85
24	472644	101199	3.42	3.59	2.76	2.93

Label	Easting	Northing	0.5% AEP	0.1% AEP	0.5% AEP	0.1% AEP
			Height	Height	Depth	Depth
25	472695	101199	3.42	3.59	3.24	3.41
Max value in selected area:			3.42	3.60	4.23	4.41

Data in this table comes from the Hayling Island 2018 - East Solent Model model. Height values are shown in mAOD, and depth values are shown in metres.
Any blank cells show where a particular scenario has not been modelled for this location.
Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.



Environment Agency

Defended climate change modelled tidal extent and height

Location (easting/northing)
472594/101098

Scale
1:2,500

Created
23 Oct 2025

Model name
Hayling Island 2018 East Solent Model

Selected area

Main river

Modelled 2D grid
Water level in mAOD

- 0 - 0.75
- 0.75 - 1.5
- 1.5 - 2.25
- 2.25 - 3.0
- 3.0 - 3.75
- 3.75 - 4.5
- 4.5 - 5.25
- 5.25 - 6.0
- 6.0 - 6.75

This map shows the 0.1% AEP +744mm height data

0 25 50 75 100
metres

Sample point data

Defended climate change

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Height	Height	Height	Height	Height
1	472491	100995	NoData	NoData	4.22	NoData	4.35
2	472542	100995	NoData	3.74	4.22	3.92	4.35
3	472593	100995	3.51	3.74	4.22	3.92	4.35
4	472644	100995	3.51	3.74	4.22	3.92	4.35
5	472695	100995	3.51	3.74	4.22	3.92	4.35
6	472491	101046	NoData	NoData	4.22	3.93	4.35
7	472542	101046	NoData	3.74	4.22	3.92	4.35
8	472593	101046	NoData	3.74	4.22	3.92	4.35
9	472644	101046	3.51	3.74	4.22	3.92	4.35
10	472695	101046	3.51	3.74	4.22	3.92	4.35
11	472491	101097	NoData	3.73	4.23	3.92	4.35
12	472542	101097	NoData	3.74	4.22	3.92	4.35

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Height	Height	Height	Height	Height
13	472593	101097	3.51	3.74	4.22	3.92	4.35
14	472644	101097	3.50	3.74	4.22	3.92	4.35
15	472695	101097	3.50	3.74	4.22	3.92	4.35
16	472491	101148	NoData	NoData	4.23	3.92	4.35
17	472542	101148	NoData	3.74	4.22	3.92	4.35
18	472593	101148	3.51	3.74	4.22	3.92	4.35
19	472644	101148	3.50	3.74	4.22	3.92	4.35
20	472695	101148	3.50	3.74	4.22	3.92	4.35
21	472491	101199	NoData	3.75	4.23	3.92	4.35
22	472542	101199	3.51	3.74	4.23	3.92	4.35
23	472593	101199	3.51	3.74	4.22	3.92	4.35
24	472644	101199	3.50	3.74	4.22	3.92	4.35

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Height	Height	Height	Height	Height
25	472695	101199	3.50	3.74	4.22	3.92	4.35
Max value in selected area:			3.51	3.75	4.23	3.93	4.35

Data in this table comes from the Hayling Island 2018 - East Solent Model model. Height values are shown in mAOD, and depth values are shown in metres.
Any blank cells show where a particular scenario has not been modelled for this location.
Cells which contain text 'NoData' for a scenario show that return period has been modelled but there is no flood risk for that return period for that location.
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.

Defended climate change

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Depth	Depth	Depth	Depth	Depth
1	472491	100995	NoData	NoData	0.17	NoData	0.30
2	472542	100995	NoData	0.12	0.60	0.31	0.74
3	472593	100995	0.66	0.89	1.37	1.07	1.50
4	472644	100995	1.10	1.33	1.81	1.51	1.95
5	472695	100995	1.50	1.73	2.21	1.91	2.35
6	472491	101046	NoData	NoData	0.38	0.08	0.51
7	472542	101046	NoData	0.06	0.54	0.24	0.67
8	472593	101046	NoData	0.16	0.64	0.34	0.77
9	472644	101046	1.17	1.40	1.88	1.58	2.01
10	472695	101046	0.73	0.97	1.45	1.15	1.58
11	472491	101097	NoData	0.12	0.61	0.31	0.74
12	472542	101097	NoData	0.12	0.61	0.31	0.74

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Depth	Depth	Depth	Depth	Depth
13	472593	101097	0.49	0.73	1.21	0.90	1.34
14	472644	101097	0.66	0.90	1.38	1.08	1.51
15	472695	101097	3.02	3.26	3.74	3.44	3.87
16	472491	101148	NoData	NoData	0.43	0.12	0.56
17	472542	101148	NoData	0.38	0.86	0.55	0.99
18	472593	101148	0.77	1.00	1.48	1.18	1.62
19	472644	101148	2.59	2.82	3.30	3.00	3.44
20	472695	101148	3.49	3.73	4.21	3.91	4.34
21	472491	101199	NoData	0.23	0.71	0.41	0.84
22	472542	101199	0.29	0.53	1.01	0.71	1.14
23	472593	101199	0.76	1.00	1.48	1.18	1.61
24	472644	101199	2.84	3.08	3.56	3.26	3.69

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Depth	Depth	Depth	Depth	Depth
25	472695	101199	3.33	3.56	4.04	3.74	4.17
Max value in selected area:			4.32	4.56	5.03	4.73	5.17

Data in this table comes from the Hayling Island 2018 - East Solent Model model. Height values are shown in mAOD, and depth values are shown in metres.
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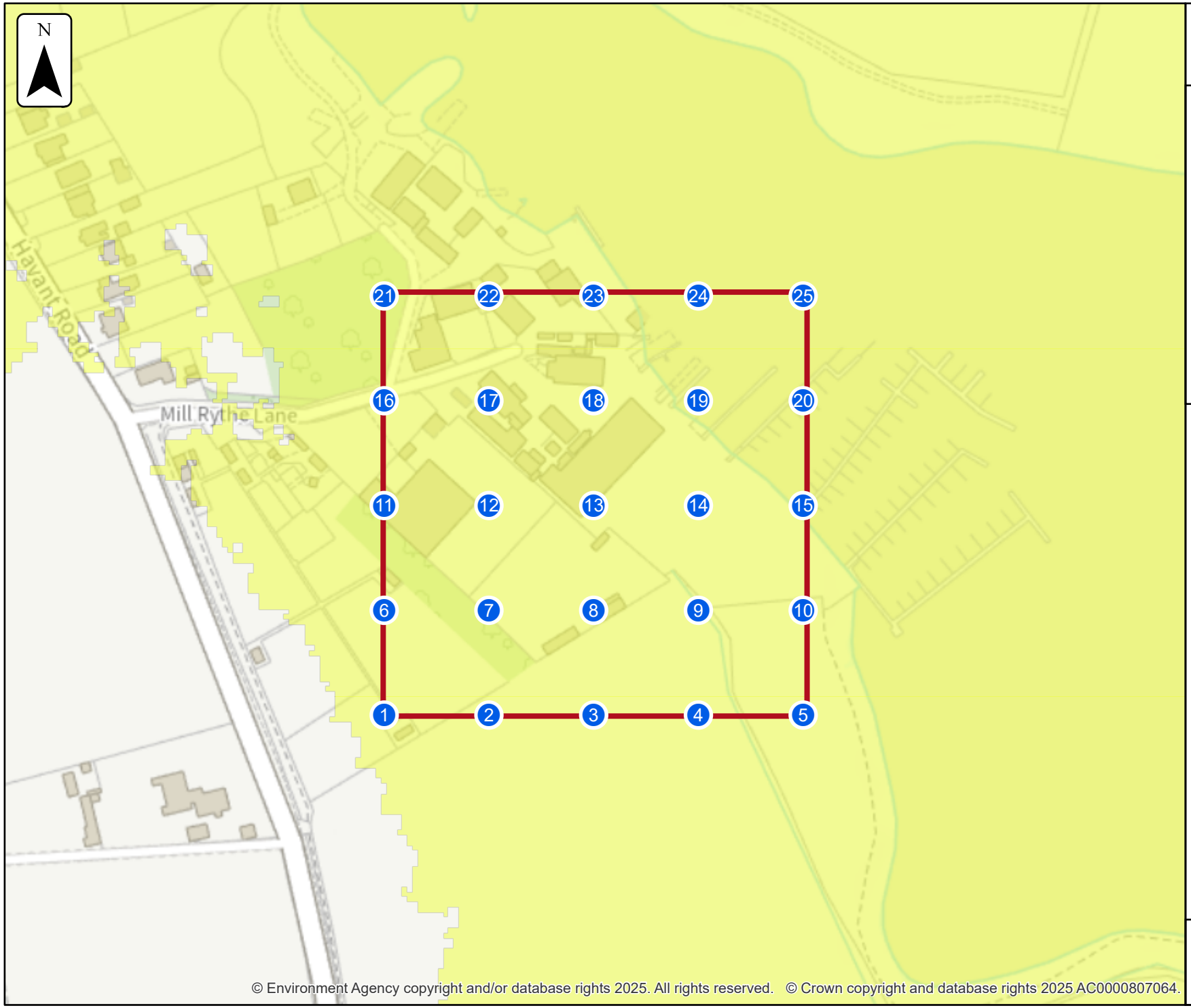
'Max value in selected area' is the deepest depth or highest height at any location within your drawn boundary.



Environment Agency

Defences removed climate change modelled tidal extent and height

Location (easting/northing)
472594/101098

Scale
1:2,500

Created
23 Oct 2025

Model name
Hayling Island 2018 East Solent Model

Selected area

Main river

Modelled 2D grid
Water level in mAOD

- 0 - 0.75
- 0.75 - 1.5
- 1.5 - 2.25
- 2.25 - 3.0
- 3.0 - 3.75
- 3.75 - 4.5
- 4.5 - 5.25
- 5.25 - 6.0
- 6.0 - 6.75

This map shows the 0.1% AEP +744mm height data

0 25 50 75 100
metres

Sample point data

Defences removed climate change

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Height	Height	Height	Height	Height
1	472491	100995	NoData	NoData	4.17	NoData	4.34
2	472542	100995	NoData	3.74	4.16	3.91	4.34
3	472593	100995	3.50	3.74	4.16	3.91	4.34
4	472644	100995	3.50	3.74	4.16	3.91	4.34
5	472695	100995	3.50	3.74	4.16	3.91	4.34
6	472491	101046	NoData	NoData	4.16	3.92	4.34
7	472542	101046	NoData	3.74	4.16	3.91	4.34
8	472593	101046	NoData	3.74	4.16	3.91	4.34
9	472644	101046	3.50	3.74	4.16	3.91	4.34
10	472695	101046	3.50	3.74	4.16	3.91	4.34
11	472491	101097	NoData	3.73	4.16	3.92	4.34
12	472542	101097	NoData	3.74	4.16	3.91	4.34

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Height	Height	Height	Height	Height
13	472593	101097	3.50	3.74	4.16	3.91	4.34
14	472644	101097	3.50	3.74	4.16	3.91	4.34
15	472695	101097	3.50	3.74	4.16	3.91	4.34
16	472491	101148	NoData	NoData	4.16	3.92	4.34
17	472542	101148	NoData	3.74	4.16	3.91	4.34
18	472593	101148	3.50	3.74	4.16	3.91	4.34
19	472644	101148	3.50	3.74	4.16	3.91	4.34
20	472695	101148	3.50	3.74	4.16	3.91	4.34
21	472491	101199	NoData	3.74	4.16	3.92	4.34
22	472542	101199	3.51	3.74	4.16	3.91	4.34
23	472593	101199	3.50	3.74	4.16	3.91	4.34
24	472644	101199	3.50	3.74	4.16	3.91	4.34

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Height	Height	Height	Height	Height
25	472695	101199	3.50	3.74	4.16	3.91	4.34
Max value in selected area:			3.51	3.74	4.17	3.92	4.34

Data in this table comes from the Hayling Island 2018 - East Solent Model model. Height values are shown in mAOD, and depth values are shown in metres.
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Defences removed climate change

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Depth	Depth	Depth	Depth	Depth
1	472491	100995	NoData	NoData	0.11	NoData	0.29
2	472542	100995	NoData	0.12	0.55	0.30	0.72
3	472593	100995	0.65	0.89	1.31	1.06	1.49
4	472644	100995	1.10	1.33	1.75	1.51	1.93
5	472695	100995	1.50	1.73	2.16	1.91	2.33
6	472491	101046	NoData	NoData	0.32	0.07	0.49
7	472542	101046	NoData	0.06	0.48	0.23	0.66
8	472593	101046	NoData	0.16	0.58	0.33	0.75
9	472644	101046	1.16	1.40	1.82	1.57	2.00
10	472695	101046	1.10	1.33	1.75	1.50	1.93
11	472491	101097	NoData	0.12	0.55	0.30	0.73
12	472542	101097	NoData	0.12	0.55	0.30	0.72

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Depth	Depth	Depth	Depth	Depth
13	472593	101097	0.49	0.72	1.15	0.90	1.32
14	472644	101097	0.66	0.90	1.32	1.07	1.50
15	472695	101097	3.02	3.26	3.68	3.43	3.86
16	472491	101148	NoData	NoData	0.37	0.12	0.54
17	472542	101148	NoData	0.37	0.80	0.55	0.97
18	472593	101148	0.77	1.00	1.43	1.18	1.60
19	472644	101148	2.59	2.82	3.25	3.00	3.42
20	472695	101148	3.49	3.73	4.15	3.90	4.33
21	472491	101199	NoData	0.23	0.65	0.40	0.82
22	472542	101199	0.29	0.53	0.95	0.70	1.13
23	472593	101199	0.76	1.00	1.42	1.17	1.60
24	472644	101199	2.84	3.08	3.50	3.25	3.68

Label	Easting	Northing	0.5% AEP (+90mm)	0.5% AEP (+320mm)	0.5% AEP (+744mm)	0.1% AEP (+320mm)	0.1% AEP (+744mm)
			Depth	Depth	Depth	Depth	Depth
25	472695	101199	3.33	3.56	3.98	3.74	4.16
Max value in selected area:			4.32	4.55	4.98	4.73	5.15

Data in this table comes from the Hayling Island 2018 - East Solent Model model. Height values are shown in mAOD, and depth values are shown in metres.
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Strategic flood risk assessments

We recommend that you check the relevant local authority's strategic flood risk assessment (SFRA) as part of your work to prepare a site specific flood risk assessment.

This should give you information about:

- the potential impacts of climate change in this catchment
- areas defined as functional floodplain
- flooding from other sources, such as surface water, ground water and reservoirs

Your Lead Local Flood Authority is Hampshire County.

About this data

This data has been generated by strategic scale flood models and is not intended for use at the individual property scale. If you're intending to use this data as part of a flood risk assessment, please include an appropriate modelling tolerance as part of your assessment. The Environment Agency regularly updates its modelling. We recommend that you check the data provided is the most recent, before submitting your flood risk assessment.

Flood risk activity permits

Under the Environmental Permitting (England and Wales) Regulations 2016 some developments may require an environmental permit for flood risk activities from the Environment Agency. This includes any permanent or temporary works that are in, over, under, or nearby a designated main river or flood defence structure.

Find out more about flood risk activity permits

Help and advice

Contact the Solent and South Downs Environment Agency team at ssdenquiries@environment-agency.gov.uk for:

- more information about getting a product 5, 6, 7 or 8
- general help and advice about the site you're requesting data for