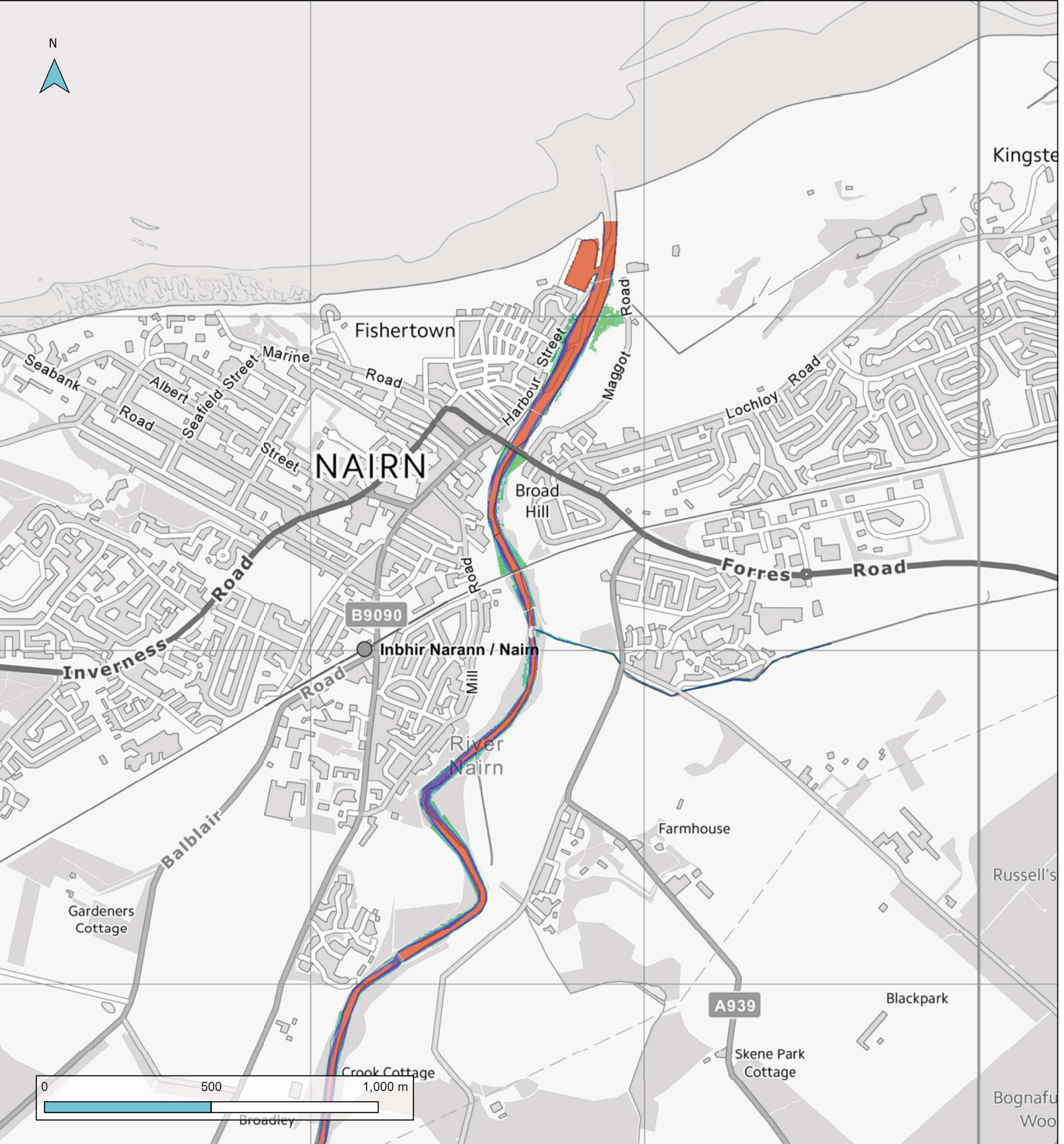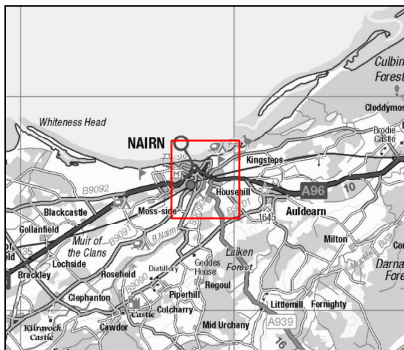# A    Appendix: Flood Maps

## A.1    Overview

Combined maximum depth, velocity and level grid (raster format) and flood extent maps (pdf format) have been output, these were combined from the joint probability results. For events up to and including the 200-year event, the fluvial and coastal outputs have been combined by outputting the maximum depth, velocity or level from either event (fluvial or coastal) on to the same grid extent, so that the maximum value is used. For instance, the 200-year fluvial and 200-year coastal outputs have been combined and the maximum depth at each grid cell used in the 200-year output. For the 1000-year and climate change events, as well as the 200-year event for the N+20 sensitivity test run, three outputs have been combined. These were from the fluvial (Nairn), fluvial (Auldearn) and coastal runs. The fluvial inputs for the Nairn and Auldearn had to be run separately for these larger events, due to model instability.

These combined flood maps display the results of the 2D domain i.e. the model extent outwith the channel. The 1D channel has been represented within the food maps for visual completeness, however, the values presented in the 1D channel are indicative only.  The true values for the 1D domain should be read directly from the model or from the provided 1D output tables in Appendix F.  It is noted that the combined velocity flood maps appear to show a sudden change in velocity on either side of some bridges. From analysing the maximum and mean velocity 1D outputs at the cross section on the downstream face of bridges compared to the upstream face, the velocity is similar or slightly greater than the upstream face. For instance, the 30-year velocity output results have been compared to the 30-year velocity combined pdf flood map. The velocity seen upstream of NAI01_02830 ranges between 2.4 and 2.9 m/s (i.e. it is not above 3 m/s in this area), whereas on the pdf maps the colour banding would suggest that they are greater than 3 m/s.

## A.2 Flood depth maps

N

NAIRN

Fishertown

Seabank

Albert Road
Seafield Street
Marine Road

Harbour Street

Broad Hill

Maggot Road

Lochloy Road

Forres Road

Kingste

Kingste

Inverness Road

B9090

Inbhir Narann / Nairn

Mill Road

River Nairn

Balblair

Gardeners Cottage

Farmhouse

Russell's

Blackpark

A939

Skene Park Cottage

Crook Cottage

Broadley

Bognafu Woo

| 0 | 500 | 1,000 m |
|---|-----|---------|

## Legend

### Flood Depth (m)

DN_2yr
Band 1

| | |
|---|---|
| ▇ | <= 0.1 |
| ▇ | 0.10 - 0.30m |
| ▇ | 0.30 - 0.50m |
| ▇ | 0.50 - 1.00m |
| ▇ | 1.00 - 2.00m |
| ▇ | > 2.00m |

## Title

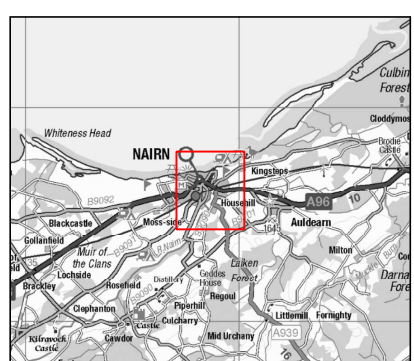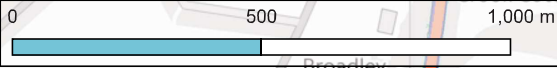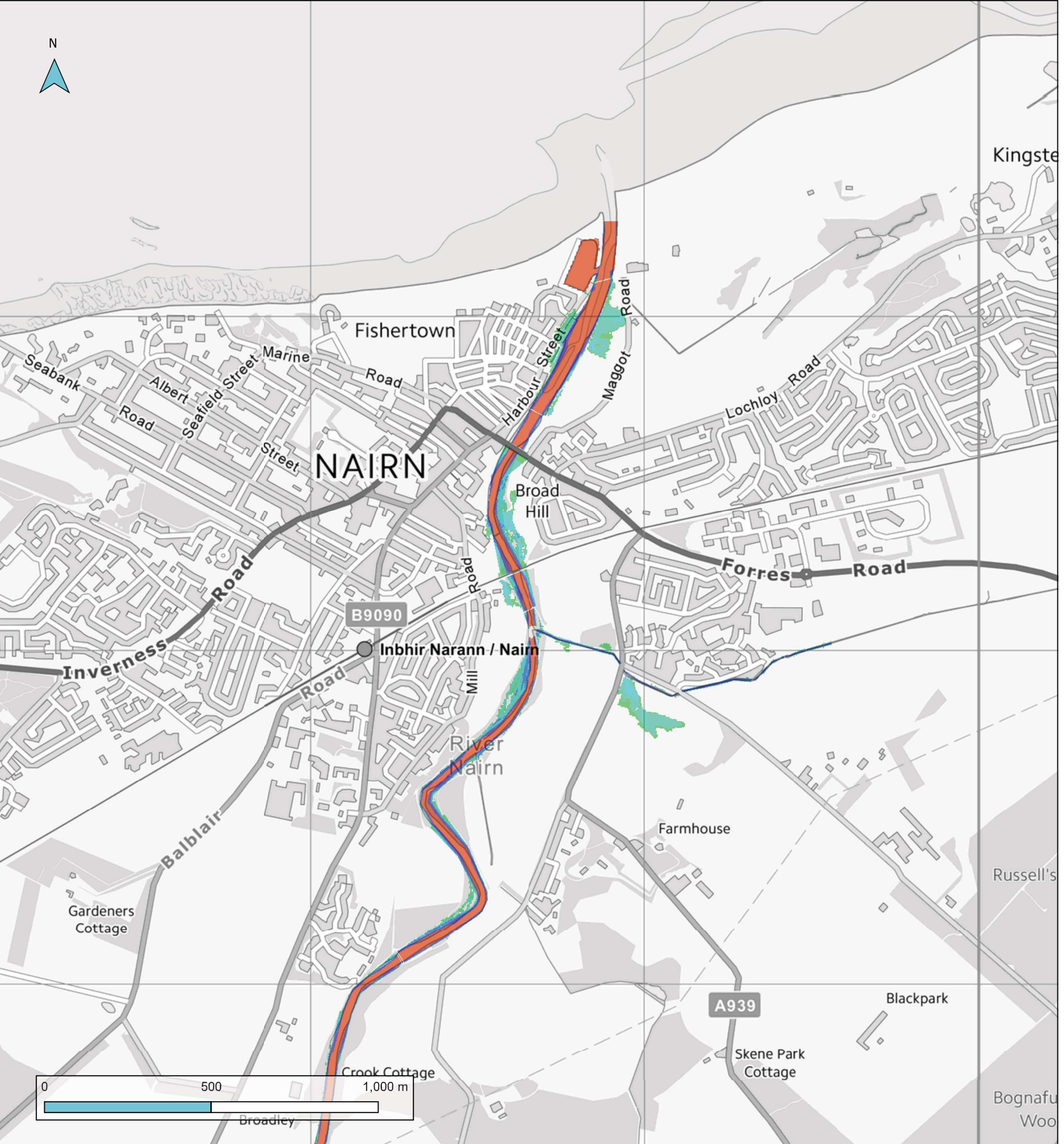1:2 Year 'Do Nothing' Fluvial and Coastal Flood Event

Flood Depth Map

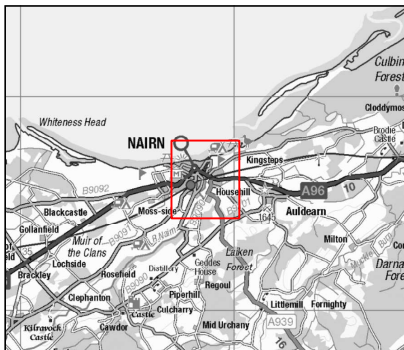Nairn Flood Risk Appraisal

**Revision:** P02     **Date:**     28/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_Fluvial&Coastal_Flood_Depth_Maps

N

NAIRN

Fishertown

Broad Hill

Inbhir Narann / Nairn

River Nairn

Seabank Road
Albert Road
Seafield Street
Marine Road
Harbour Street
Maggot Road
Lochloy Road
Forres Road

Inverness Road
B9090
Mill Road
Balblair Road

Gardeners Cottage

Farmhouse

Skene Park Cottage

Blackpark

Russell's

A939

Crook Cottage

Broadley

Bognafu Woo

Kingste

Kingste

0    500    1,000 m

Legend

Flood Depth (m)

DN_5yr
   Band 1
   <= 0.1
   0.10 - 0.30m
   0.30 - 0.50m
   0.50 - 1.00m
   1.00 - 2.00m
   > 2.00m

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Title

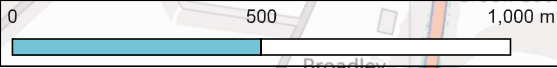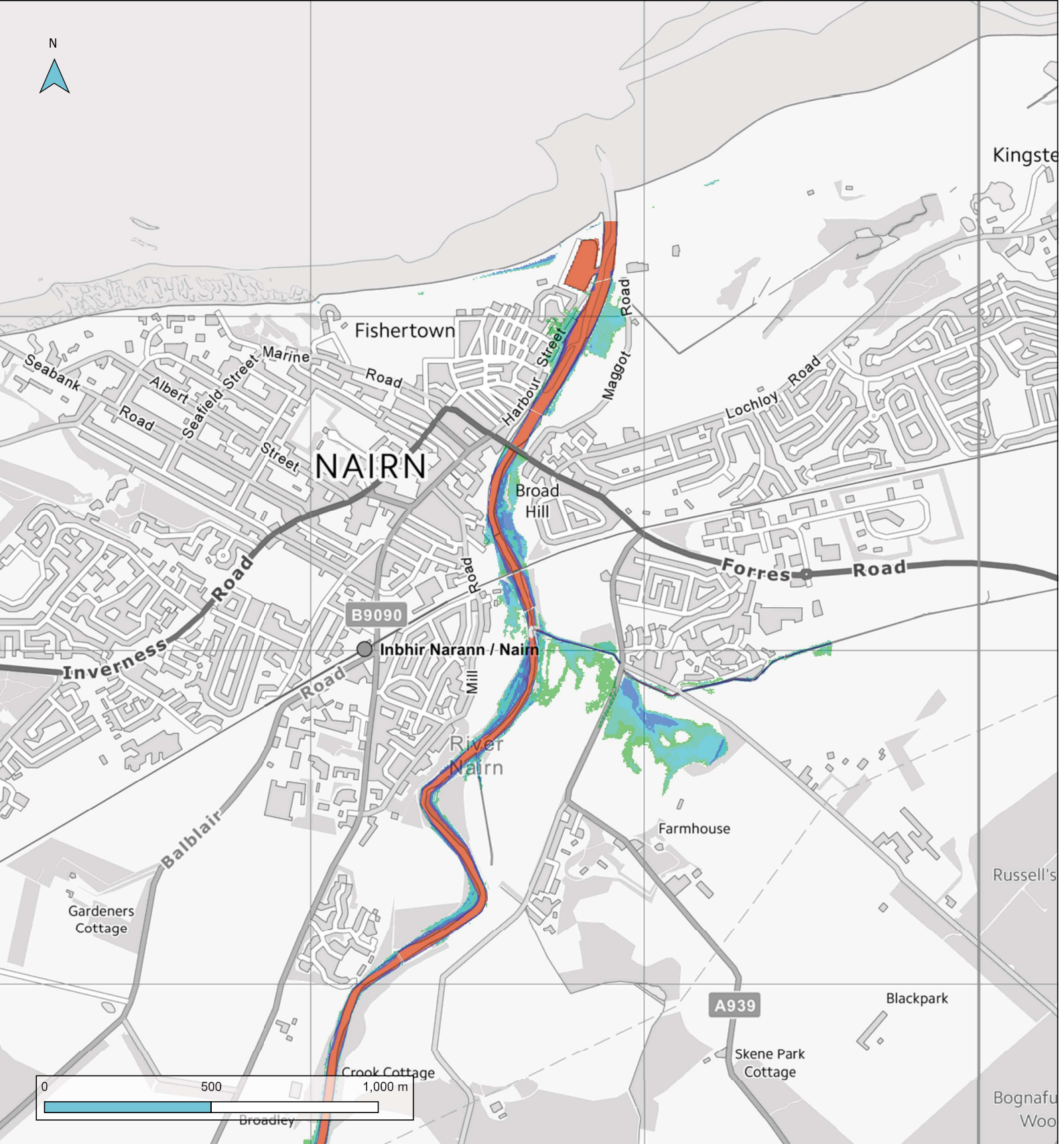1:5 Year 'Do Nothing' Fluvial and Coastal Flood Event

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P02      **Date:**      28/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_
Fluvial&Coastal_Flood_Depth_Maps

N

Kingste

Kingst

Fishertown

NAIRN

Broad
Hill

Forres Road

Inbhir Narann / Nairn

Inverness Road

B9090

Balblair

Gardeners
Cottage

River
Nairn

Farmhouse

Russell's

A939

Blackpark

Skene Park
Cottage

Crook Cottage

Bognafu
Woo

Broadley

Seabank Road · Albert Road · Seafield Street · Marine Road · Harbour Street · Maggot Road · Lochloy Road · Mill Road

0    500    1,000 m

Legend

Flood Depth (m)

DN_10yr
    Band 1
    <= 0.1
    0.10 - 0.30m
    0.30 - 0.50m
    0.50 - 1.00m
    1.00 - 2.00m
    > 2.00m

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Title

1:10 Year 'Do Nothing' Fluvial and Coastal Flood Event

Flood Depth Map

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**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_
Fluvial&Coastal_Flood_Depth_Maps

Whiteness Head    Culbin Forest    Cloddymos

NAIRN    Kingsteps    Brodie Castle

Blackcastle    Moss-side    Auldearn

Gollanfield    Muir of the Clans    Lochside    Milton    Darna Fore

Brackley    Hosefield    Piperhill    Geddes House    Littlemill  Fornighty

Killravock    Clephanton    Culchary    Mid Urchany    A939

Castle    Cawdor

N

NAIRN

Inbhir Narann / Nairn

Fishertown

Broad Hill

River Nairn

0    500    1,000 m

Legend

Flood Depth (m)

DN_30yr
Band 1

- <= 0.1
- 0.10 - 0.30m
- 0.30 - 0.50m
- 0.50 - 1.00m
- 1.00 - 2.00m
- > 2.00m

Title

1:30 Year 'Do Nothing' Fluvial and Coastal Flood Event
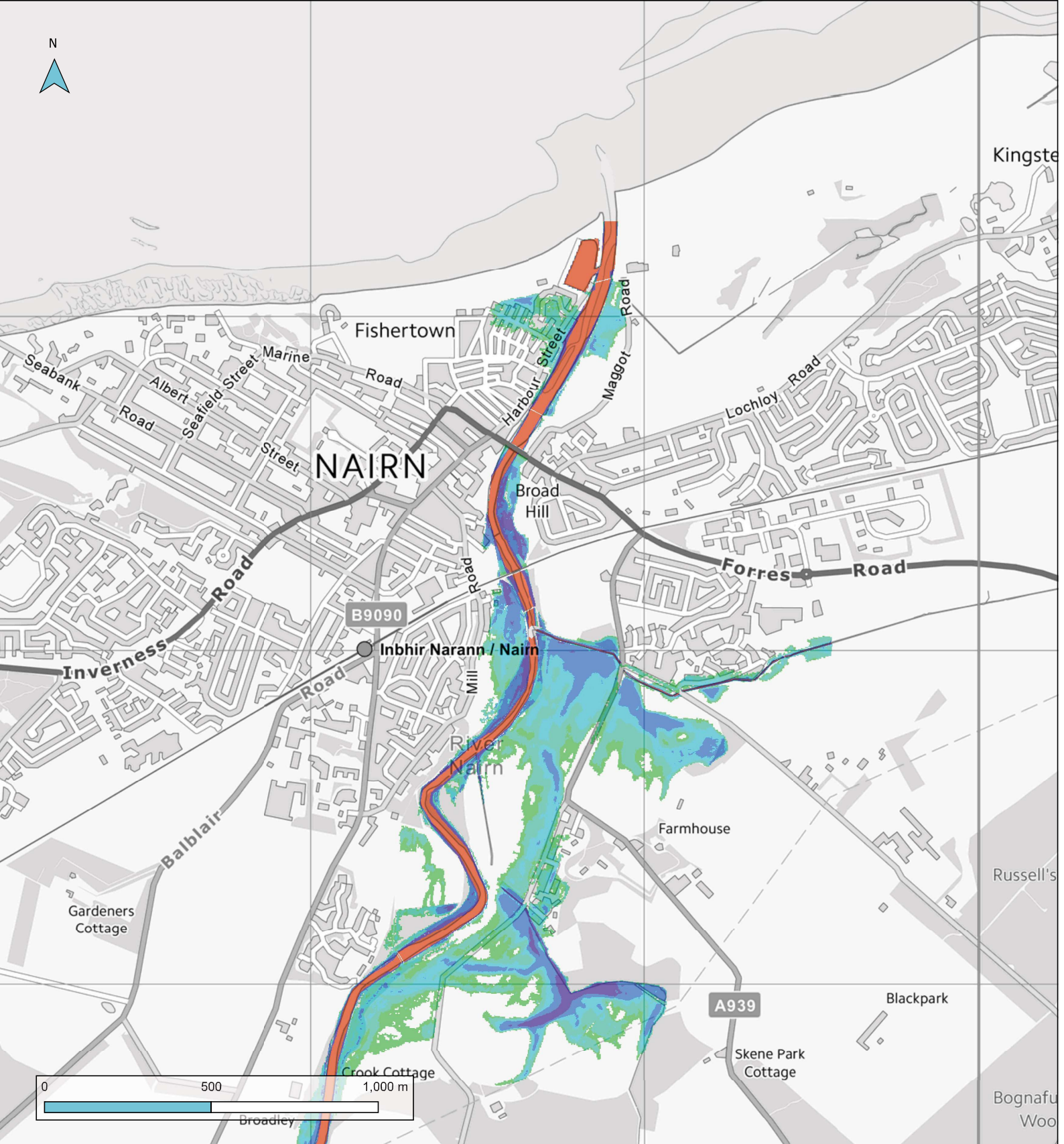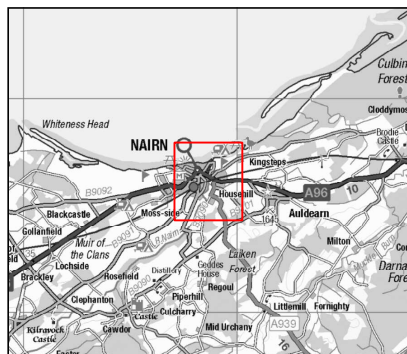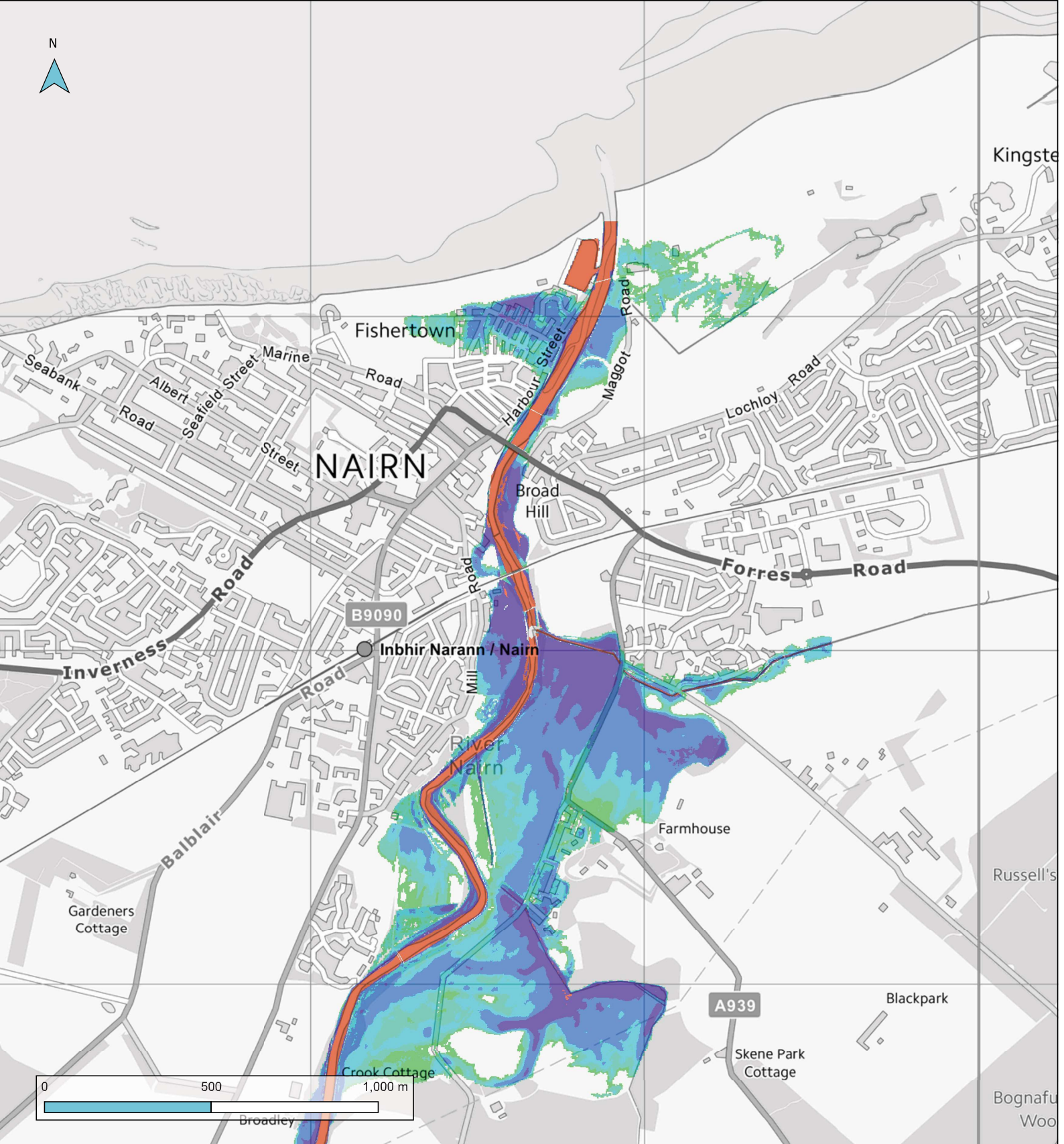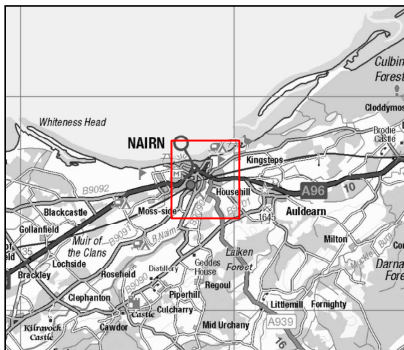
Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P02     **Date:**     28/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_
Fluvial&Coastal_Flood_Depth_Maps

N

NAIRN

Fishertown

Seabank
Albert Road
Seafield Street
Marine Road
Harbour Street
Maggot Road
Lochloy Road

Inverness Road
B9090
Inbhir Narann / Nairn
Broad Hill
Forres Road

Balblair
River Nairn
Farmhouse
Russell's

Gardeners Cottage
Blackpark
A939
Skene Park Cottage

Crook Cottage
Bognafu Woo
Broadley

Kingste
Kingsteps

| 0 | 500 | 1,000 m |

**Legend**

**Flood Depth (m)**

DN_100yr
Band 1

- <= 0.1
- 0.10 - 0.30m
- 0.30 - 0.50m
- 0.50 - 1.00m
- 1.00 - 2.00m
- > 2.00m

**Title**

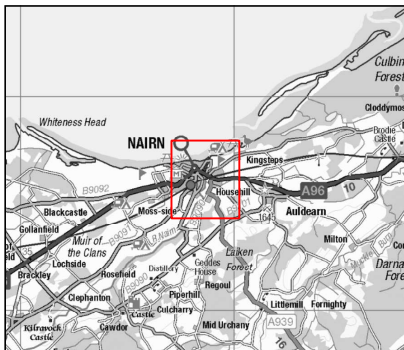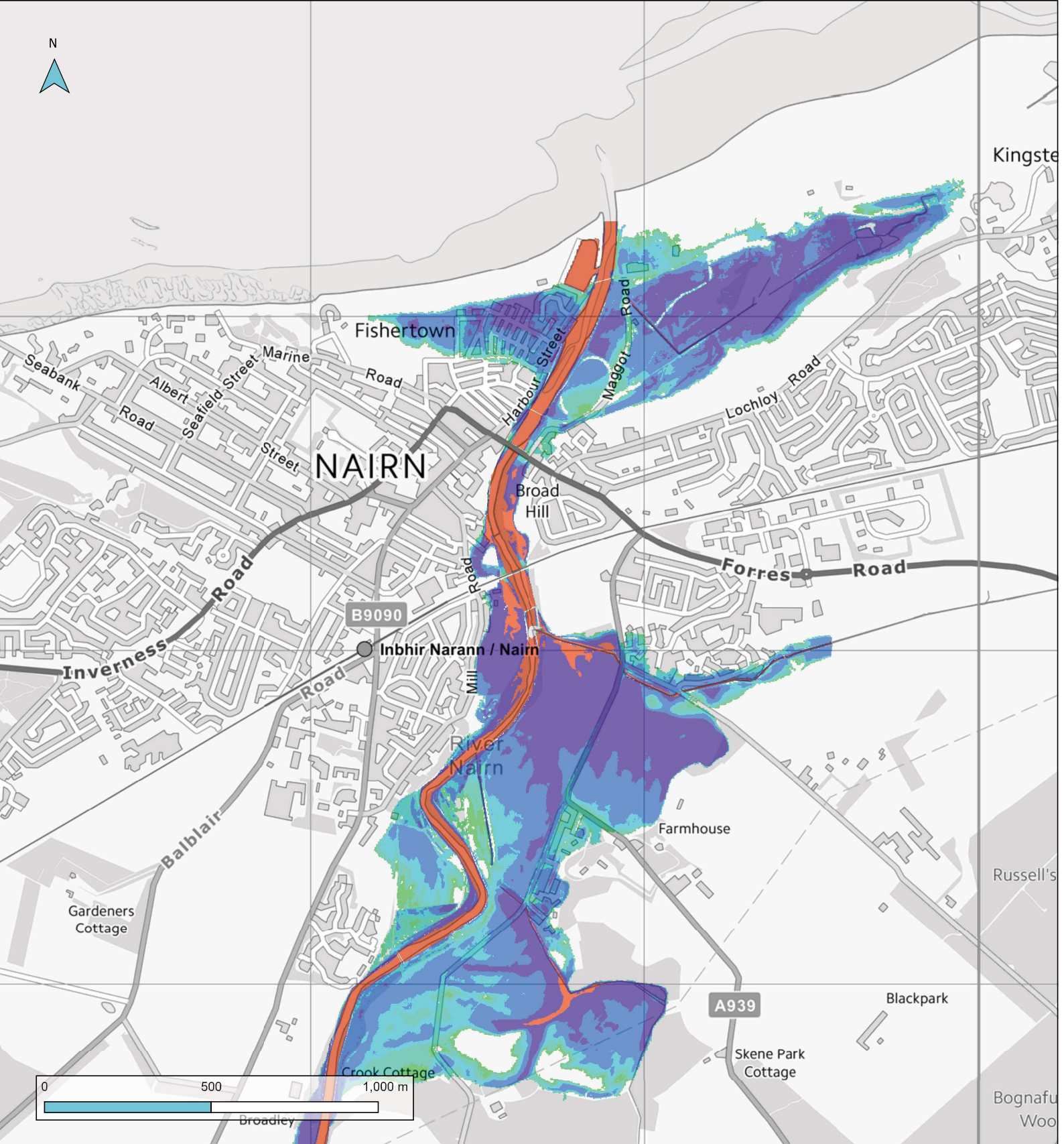1:100 Year 'Do Nothing' Fluvial and Coastal Flood Event

Flood Depth Map

Nairn Flood Risk Appraisal
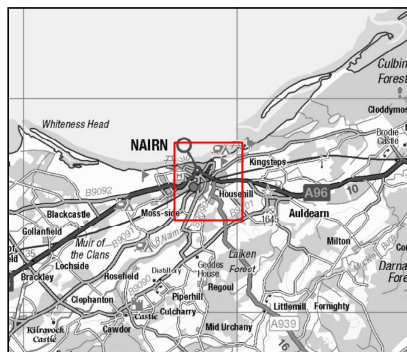
**Revision:** P02    **Date:** 28/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_
Fluvial&Coastal_Flood_Depth_Maps

1 Broughton Park
Old Lane North
Broughton
Skipton
North Yorkshire
BD23 3FD
+44 (0)1756 799 919
info@jbaconsulting.com

JBA consulting

Inset map:
Whiteness Head
Culbin Forest
Cloddymoss
Brodie Castle
NAIRN
Kingsteps
Househill
Blackcastle
Moss-side
Auldearn
Milton
Gollanfield
Muir of the Clans
Geddes House
Laiken Forest
Darna Forest
Brackley
Lochside
Piperhill
Clephanton
Culcharry
Littlemill
Fornighty
Kilravock Castle
Cawdor
Mid Urchany
A939

**N**

**Legend**

**Flood Depth (m)**

DN_200yr
Band 1

| | |
|---|---|
| 🟩 | <= 0.1 |
| 🟦 | 0.10 - 0.30m |
| 🟦 | 0.30 - 0.50m |
| 🟦 | 0.50 - 1.00m |
| 🟪 | 1.00 - 2.00m |
| 🟧 | > 2.00m |

**Title**

1:200 Year 'Do Nothing' Fluvial and Coastal Flood Event

Flood Depth Map

Nairn Flood Risk Appraisal
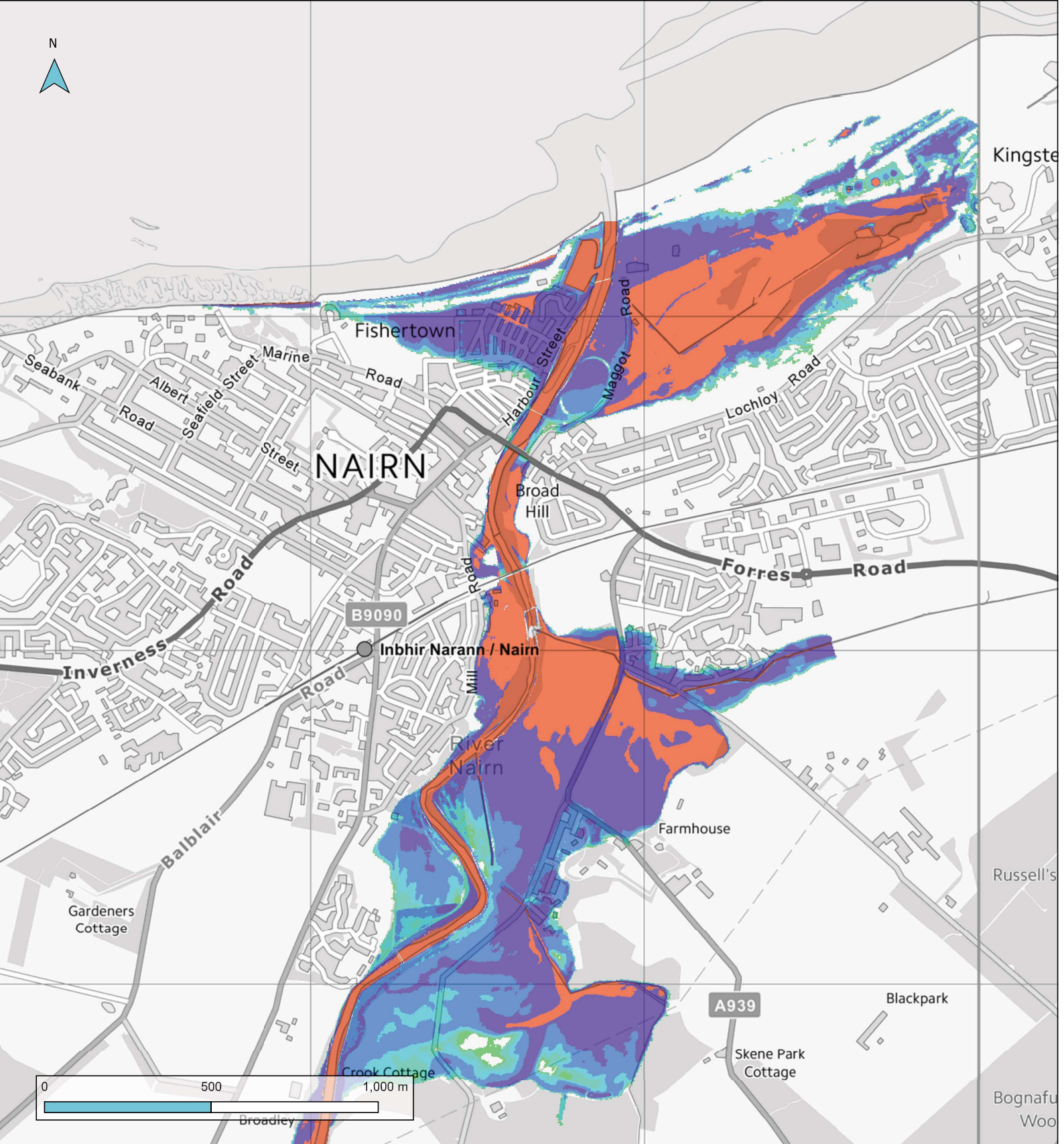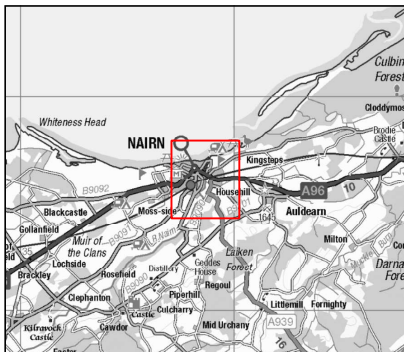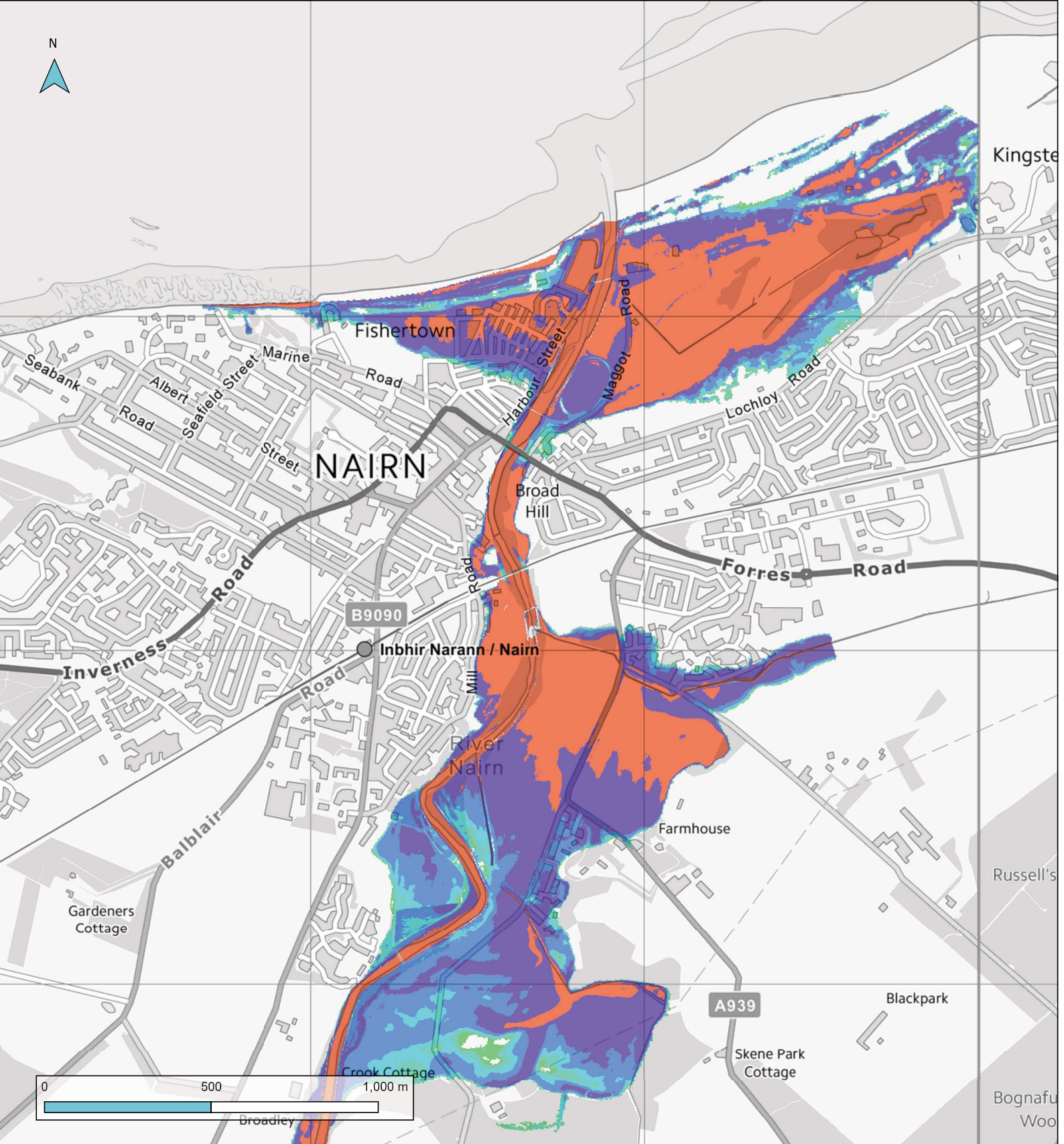
**Revision:** P02     **Date:**     28/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_
Fluvial&Coastal_Flood_Depth_Maps

N

Fishertown

NAIRN

Broad Hill

Inbhir Narann / Nairn

River Nairn

Farmhouse

Russell's

Seabank   Albert   Road   Seafield Street   Marine   Road

B9090

Inverness   Road

Balblair

Gardeners Cottage

Crook Cottage

Broadley

Harbour Street   Maggot Road   Lochloy Road

Kingste

Forres   Road

A939   Blackpark

Skene Park Cottage

Bognafu Woo

Mill

0   500   1,000 m

Legend

Flood Depth (m)

DN_200yrCC1
   Band 1

| | |
|---|---|
| ■ | <= 0.1 |
| ■ | 0.10 - 0.30m |
| ■ | 0.30 - 0.50m |
| ■ | 0.50 - 1.00m |
| ■ | 1.00 - 2.00m |
| ■ | > 2.00m |

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NAIRN
Whiteness Head   Culbin Forest   Cloddymos
Kingsteps   Brodie Castle
Blackcastle   Auldearn
Gollanfield   Milton
Muir of the Clans   Darna Forest
Lochside   Regoul   Littlemill   Fornighty
Brackley   Clephanton   Culcharry
Kilravock Castle   Cawdor   Mid Urchany   A939

Title

1:200 Year +Climate Change Scenario 1 'Do Nothing' Fluvial and Coastal Flood Event
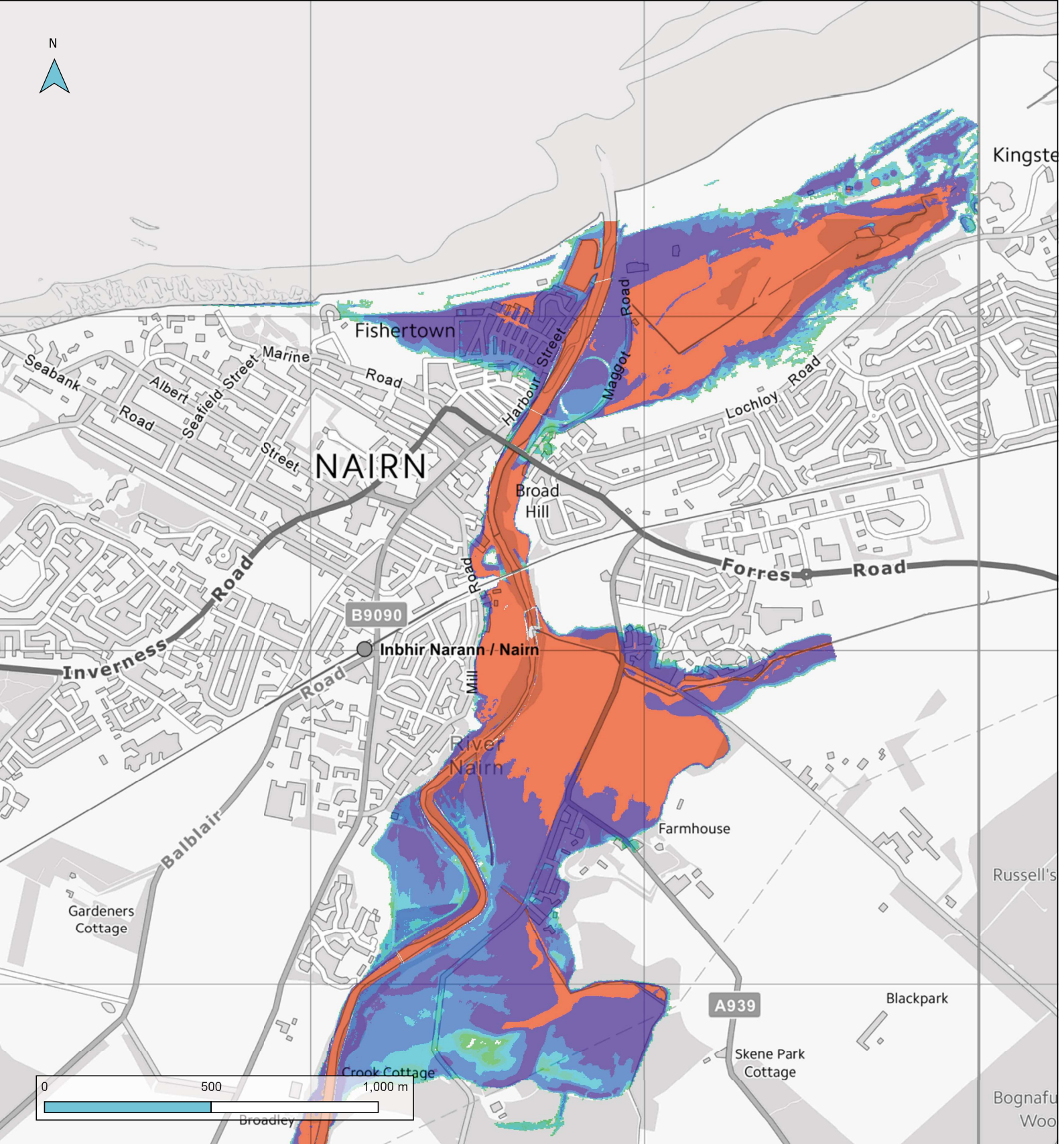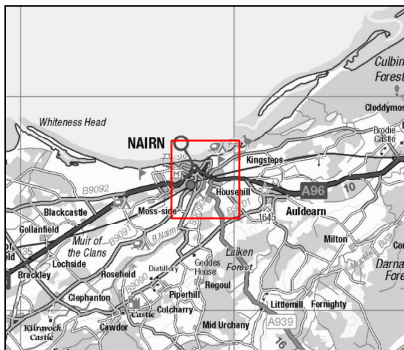
Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P02      **Date:**    28/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_
Fluvial&Coastal_Flood_Depth_Maps

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Skipton
North Yorkshire
BD23 3FD
+44 (0)1756 799 919
info@jbaconsulting.com

JBA
consulting

www.jbaconsulting.com

Legend

Flood Depth (m)

DN_200yrCC2
Band 1
- <= 0.1
- 0.10 - 0.30m
- 0.30 - 0.50m
- 0.50 - 1.00m
- 1.00 - 2.00m
- > 2.00m

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Title

1:200 Year+Climate Change Scenario 2 'Do Nothing' Fluvial and Coastal Flood Event

Flood Depth Map
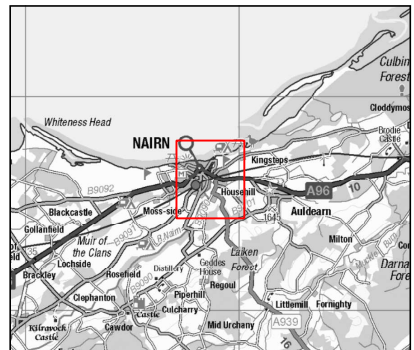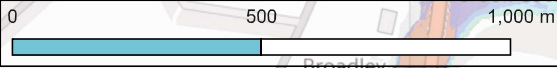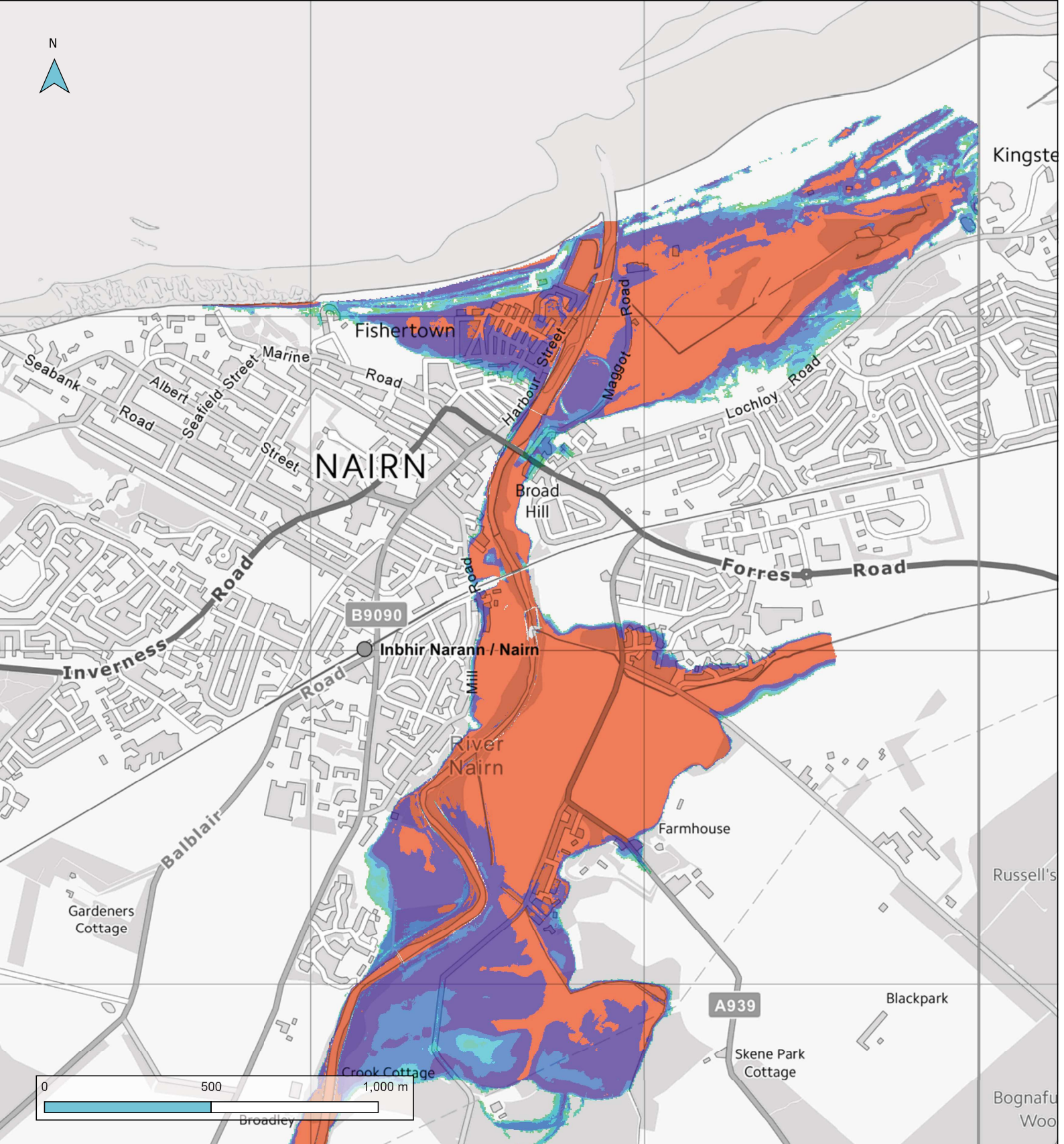
Nairn Flood Risk Appraisal

**Revision:** P02    **Date:**    28/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_ Fluvial&Coastal_Flood_Depth_Maps

N

NAIRN

Fishertown

Seabank Road · Albert Road · Seafield Street · Marine Road · Harbour Street

Maggot Road

Lochloy Road

Kingste

Broad Hill

Forres Road

Inverness Road

B9090

Inbhir Narann / Nairn

Mill Road

River Nairn

Farmhouse

Russell's

Balblair

Gardeners Cottage

A939

Blackpark

Skene Park Cottage

Crook Cottage

Broadley

Bognafu Woo

0   500   1,000 m

**Legend**

**Flood Depth (m)**

DN_1000yr
  Band 1
  ☐ <= 0.1
  ☐ 0.10 - 0.30m
  ☐ 0.30 - 0.50m
  ☐ 0.50 - 1.00m
  ☐ 1.00 - 2.00m
  ☐ > 2.00m

**Title**

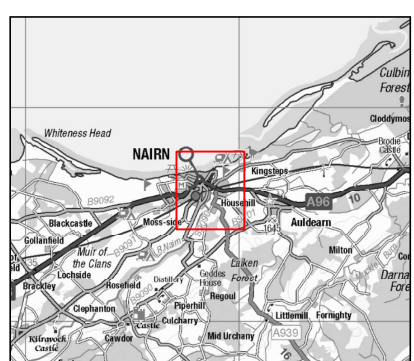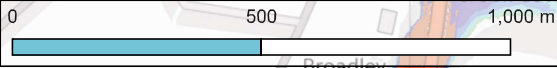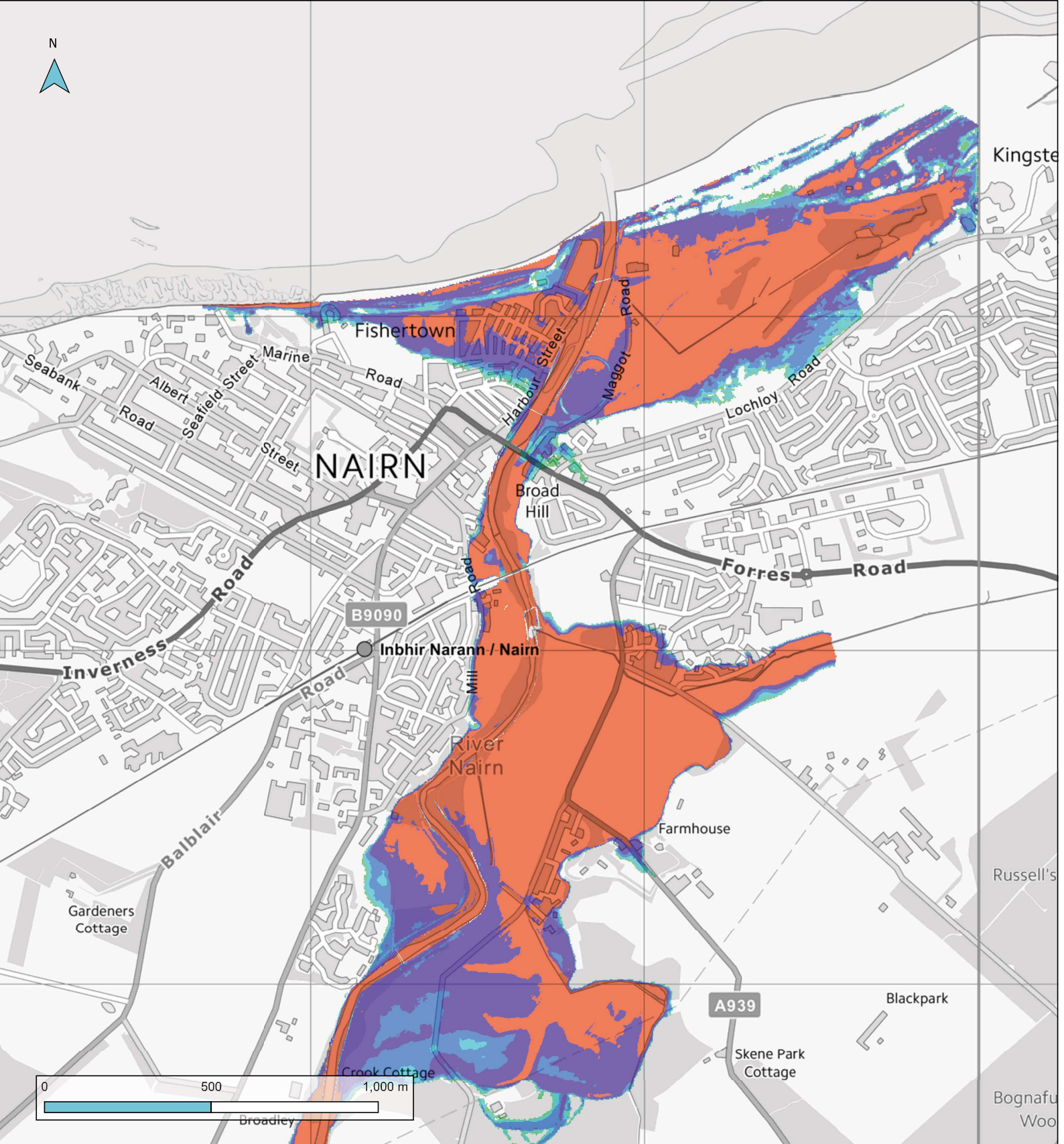1:1000 Year 'Do Nothing' Fluvial and Coastal Flood Event

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P02     **Date:**     28/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_
Fluvial&Coastal_Flood_Depth_Maps

JBA consulting

N

NAIRN

Fishertown

Seabank
Road
Albert
Road
Seafield Street
Marine
Road
Street

Harbour Street

Maggot Road

Broad
Hill

Lochloy Road

Kingste

Forres Road

B9090

Inbhir Narann / Nairn

Mill Road

Inverness Road

Balblair

Gardeners
Cottage

River
Nairn

Farmhouse

Russell's

A939

Blackpark

Skene Park
Cottage

Bognafu
Woo

Crook Cottage

Broadley

| 0 | 500 | 1,000 m |

Legend

Flood Depth (m)

DN_1000yrCC1
Band 1

| | |
|---|---|
| | <= 0.1 |
| | 0.10 - 0.30m |
| | 0.30 - 0.50m |
| | 0.50 - 1.00m |
| | 1.00 - 2.00m |
| | > 2.00m |

Title

1:1000 Year+Climate Change
Scenario 1 'Do Nothing' Fluvial
and Coastal Flood Event

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P02      **Date:**    28/03/2023
**File Name:**
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Fluvial&Coastal_Flood_Depth_Maps

N

Seabank Road
Albert Road
Seafield Street
Marine Road
Fishertown
Harbour Street
Maggot Road
Lochloy Road
Kingste

NAIRN

Broad Hill

Forres Road

Road

B9090

Inbhir Narann / Nairn

Mill

River Nairn

Inverness Road

Balblair

Gardeners Cottage

Farmhouse

Russell's

Blackpark

A939

Skene Park Cottage

Crook Cottage

Broadley

Bognafu Woo

0    500    1,000 m

**Legend**

**Flood Depth (m)**

DN_1000yrCC2
Band 1

- <= 0.1
- 0.10 - 0.30m
- 0.30 - 0.50m
- 0.50 - 1.00m
- 1.00 - 2.00m
- > 2.00m

**Title**

1:1000 Year+Climate Change Scenario 2 'Do Nothing' Fluvial and Coastal Flood Event
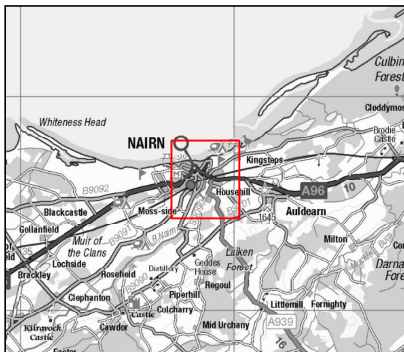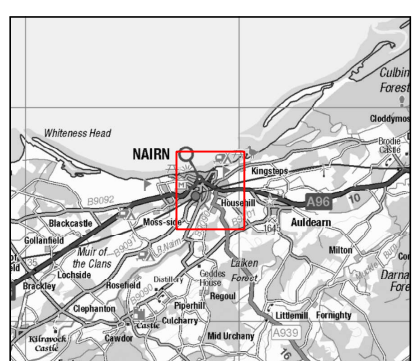
Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P02    **Date:**    28/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0008-S4-P02-DN_ Fluvial&Coastal_Flood_Depth_Maps

## A.3    Flood level maps

N

NAIRN

Fishertown

Seabank
Albert Road
Seafield Street
Marine Road
Harbour Street
Maggot Road
Lochloy Road
Broad Hill
Forres Road

Inverness Road
B9090
Inbhir Narann / Nairn
Mill Road
River Nairn
Balblair

Gardeners Cottage
Farmhouse
Russell's
A939
Blackpark
Skene Park Cottage
Crook Cottage
Broadley
Bognafu Woo

Kingste

0      500      1,000 m

**Legend**

Do Nothing Scenario Combine

DN_2yr_Level
Band 1

| | |
|---|---|
| ☐ | 6 - 8mAOD |
| ☐ | 8- - 10mAOD |
| ☐ | 10 - 12mAOD |
| ☐ | 12 - 14mAOD |
| ☐ | 14+mAOD |

**Title**

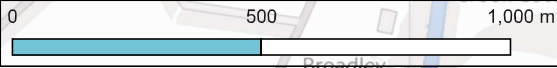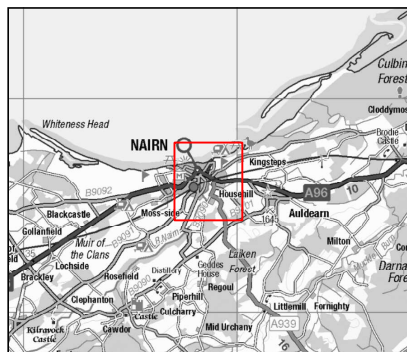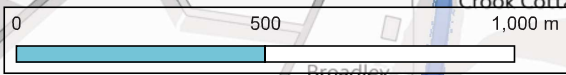1:2 Year 'Do Nothing' Fluvial and Coastal Peak Flood Level

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P01     **Date:** 30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_
Fluvial&Coastal_Flood_Level_Maps

Locator map insets:
Culbin Forest
Cloddymos
Whiteness Head
NAIRN
Kingsteps
Blackcastle
Housenill
Auldearn
Gollanfield
Moss-side
Milton
Muir of the Clans
Lochside
Geddes House
Darnaway Forest
Brackley
Piperhill
Regoul
Littlemill
Fornighty
Clephanton
Hosefield
Culcharry
Kilravock Castle
Cawdor
Mid Urchany
A939

N

NAIRN

Fishertown

Seabank Road
Albert Road
Seafield Street
Marine Road
Harbour Street
Maggot Road
Lochloy Road
Broad Hill
Forres Road
Inverness Road
B9090
Inbhir Narann / Nairn
Mill Road
River Nairn
Balblair
Gardeners Cottage
Farmhouse
Russell's
Blackpark
A939
Skene Park Cottage
Crook Cottage
Broadley
Bognafu Woo
Kingste

0          500          1,000 m

## Legend

**Do Nothing Scenario Combine**

DN_5yr_Level
Band 1

| | |
|---|---|
| 6 – 8mAOD | |
| 8- - 10mAOD | |
| 10 - 12mAOD | |
| 12 - 14mAOD | |
| 14+mAOD | |

## Title

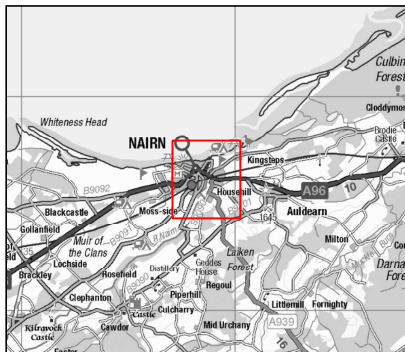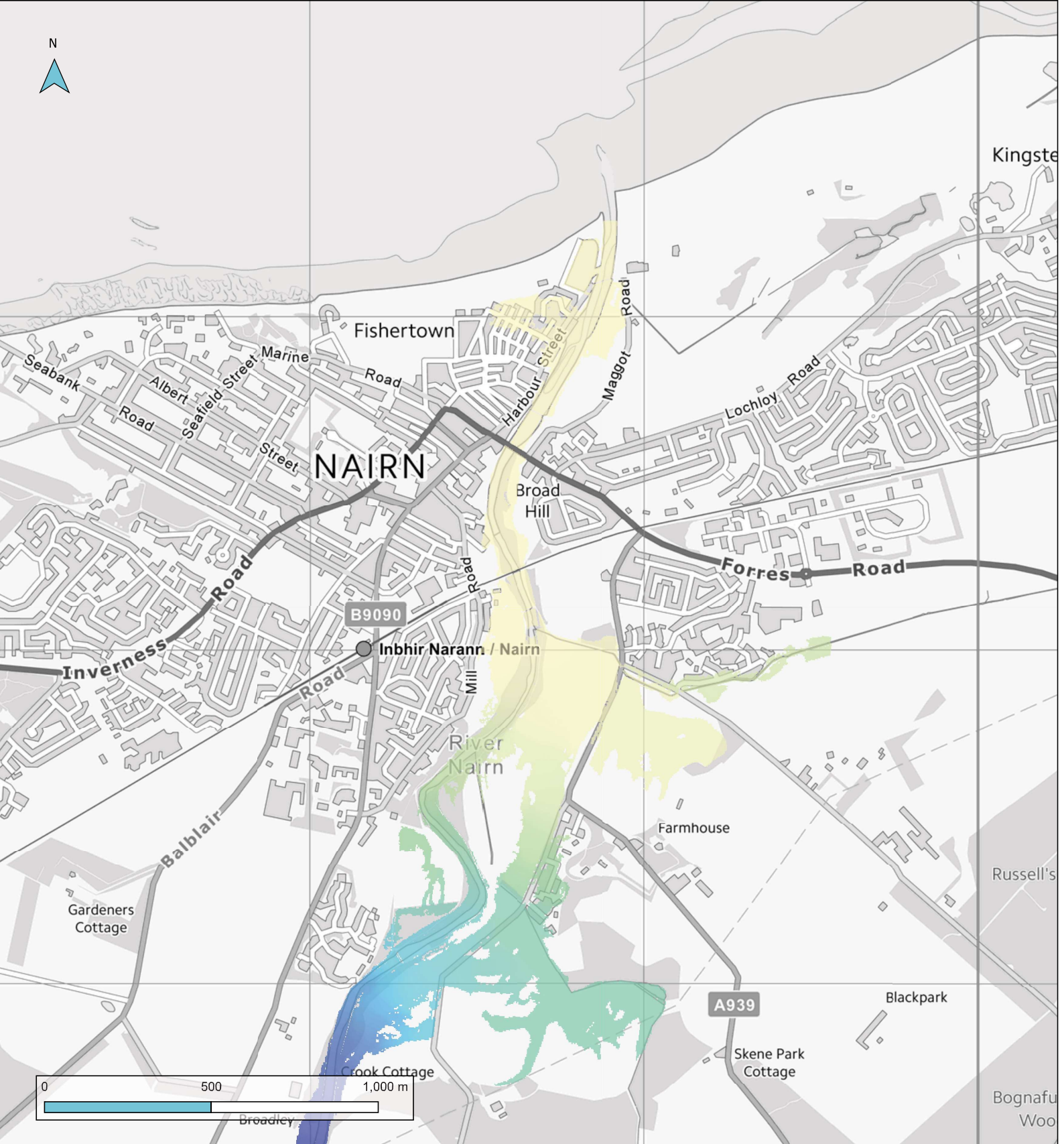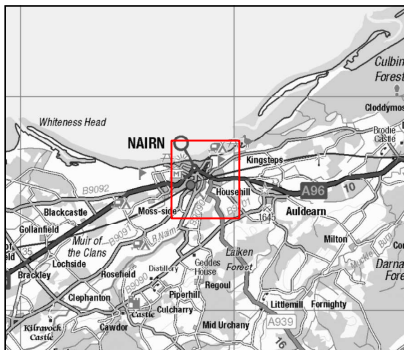**1:5 Year 'Do Nothing' Fluvial and Coastal Peak Flood Level**

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P01        **Date:** 30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_
Fluvial&Coastal_Flood_Level_Maps

Whiteness Head
Culbin Forest
NAIRN
Kingsteps
Cloddymos
Brodie Castle
Blackcastle
Gollanfield
Muir of the Clans
Lochside
Brackley
Kilravock Castle
Hosefield
Clephanton
Cawdor
Piperhill
Culcharry
Geddes House
Regoul
Distillery
Auldearn
Milton
Littlemill
Mid Urchany
Fornighty
Darna Fore
B9092
A96
A939

N

Kingste

Kingste

Fishertown

Marine

Road

Seabank

Albert

Seafield Street

Street

Road

Road

Harbour Street

NAIRN

B9090

Inbhir Narann / Nairn

Mill Road

Inverness Road

A939

Maggot Road

Lochloy Road

Broad
Hill

Forres Road

River
Nairn

Farmhouse

Russell's

Balblair

Gardeners
Cottage

A939

Blackpark

Skene Park
Cottage

Crook Cottage

Bognafu
Woo

Broadley

| 0 | 500 | 1,000 m |
|---|---|---|

N

NAIRN

Fishertown

Broad Hill

Inbhir Narann / Nairn

River Nairn

Farmhouse

Blackpark

Skene Park Cottage

Gardeners Cottage

Crook Cottage

Broadley

Russell's

Bognafu Woo

Kingste

Seabank Road · Albert Road · Seafield Street · Marine Road · Street · Harbour Street · Maggot Road · Lochloy Road · Forres Road · Inverness Road · Balblair · Mill Road · B9090 · A96 · A939

**Legend**

Do Nothing Scenario Combine

DN_30yr_Level
Band 1

| | |
|---|---|
| | 6 - 8mAOD |
| | 8- - 10mAOD |
| | 10 - 12mAOD |
| | 12 - 14mAOD |
| | 14+mAOD |

**Title**

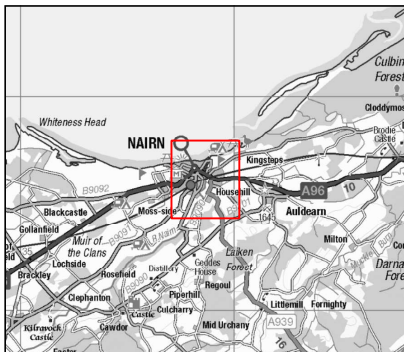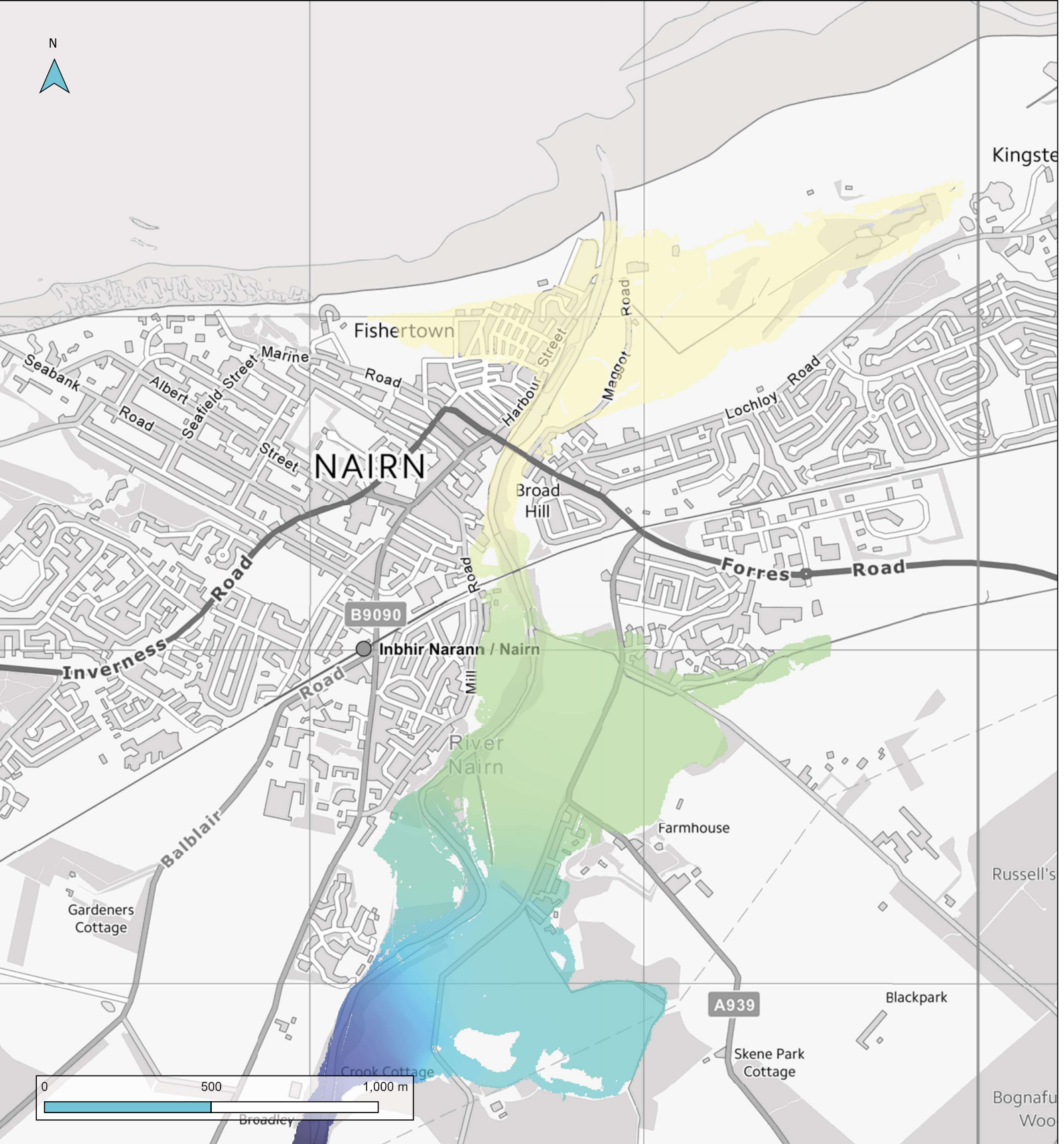1:30 Year 'Do Nothing' Fluvial and Coastal Peak Flood Level

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P01    **Date:**    30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_
Fluvial&Coastal_Flood_Level_Maps

0    500    1,000 m

N
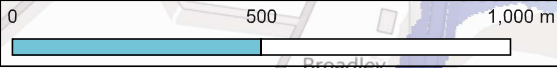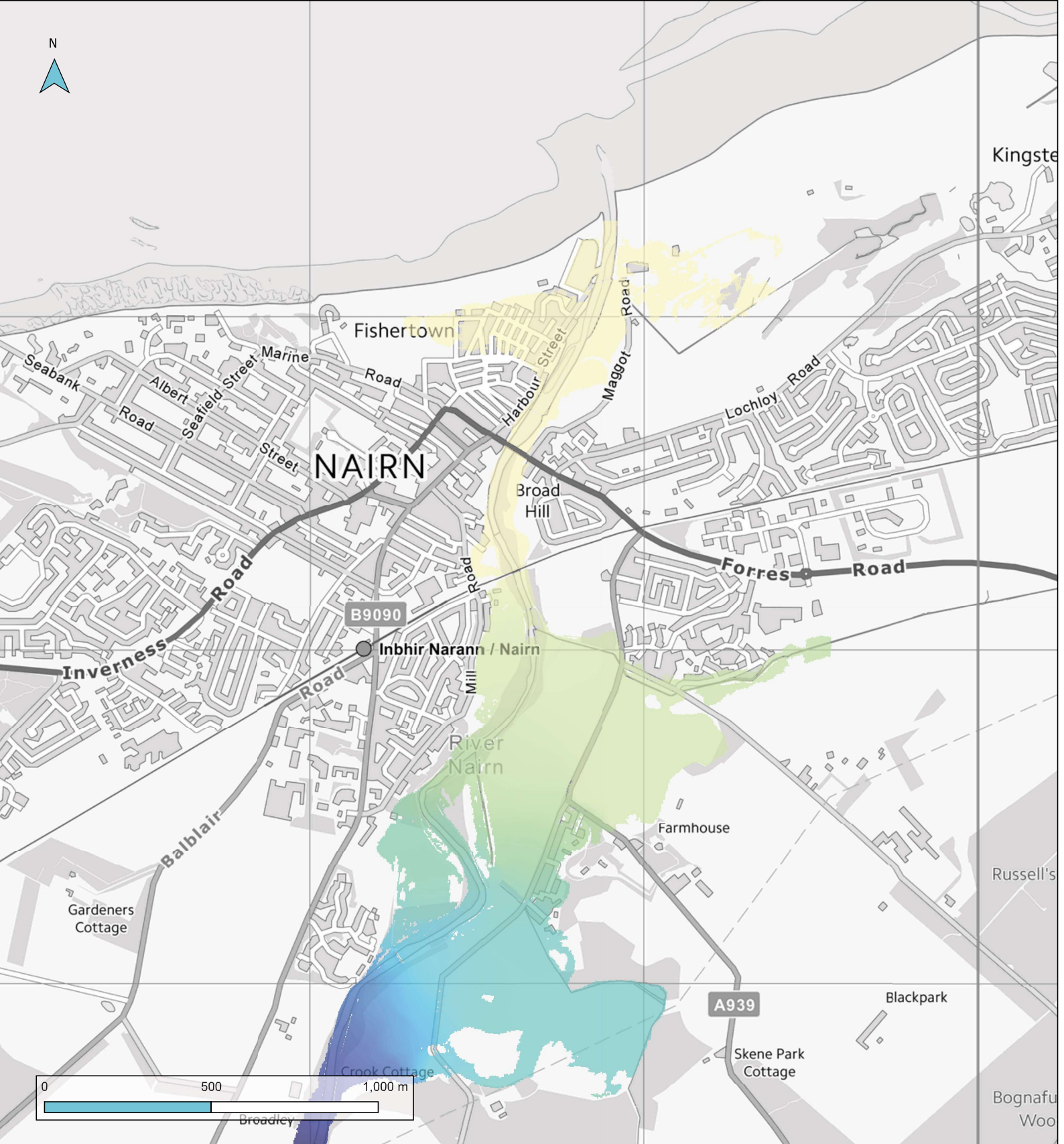
**Legend**

**Do Nothing Scenario Combine**

DN_100yr_Level
Band 1

| | |
|---|---|
| | 6 - 8mAOD |
| | 8- - 10mAOD |
| | 10 - 12mAOD |
| | 12 - 14mAOD |
| | 14+mAOD |

**Title**

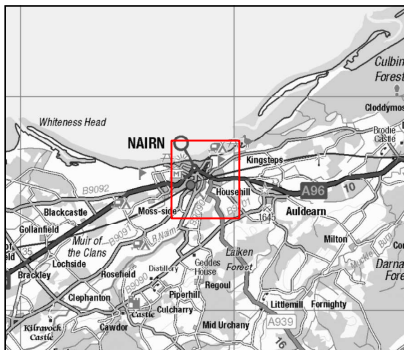1:100 Year 'Do Nothing' Fluvial and Coastal Peak Flood Level
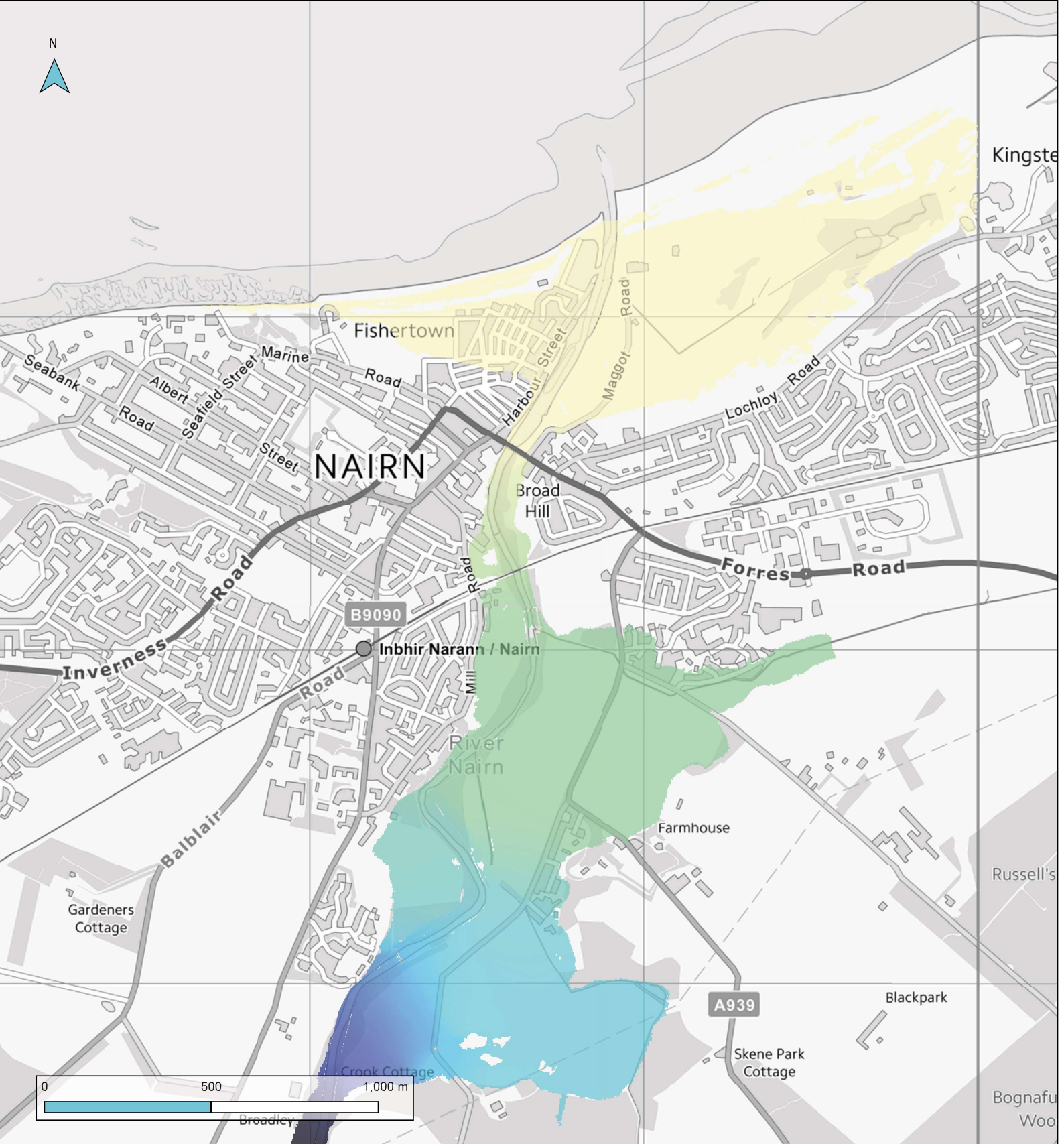
Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P01          **Date:**     30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_
Fluvial&Coastal_Flood_Level_Maps

N

FISHERTOWN

NAIRN

Broad
Hill

Inbhir Narann / Nairn

River
Nairn

Farmhouse

Russell's

Blackpark

Skene Park
Cottage

Gardeners
Cottage

Crook Cottage

Broadley

Bognafu
Woo

Kingste

Seabank
Road
Albert
Road
Seafield Street
Marine
Road
Harbour Street
Maggot Road
Lochloy Road
Street
Forres Road

Inverness
Road
B9090
Mill Road
Balblair
A939

| 0 | 500 | 1,000 m |
|---|---|---|

**Legend**

Do Nothing Scenario Combine

DN_200yr_Level
Band 1

6 - 8mAOD

8- - 10mAOD

10 - 12mAOD

12 - 14mAOD

14+mAOD

**Title**

1:200 Year 'Do Nothing' Fluvial
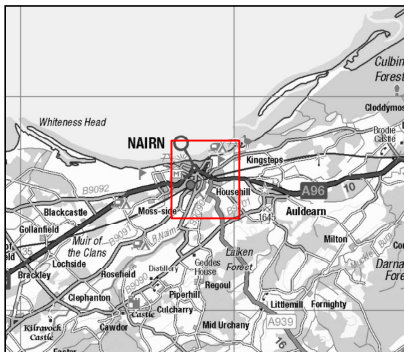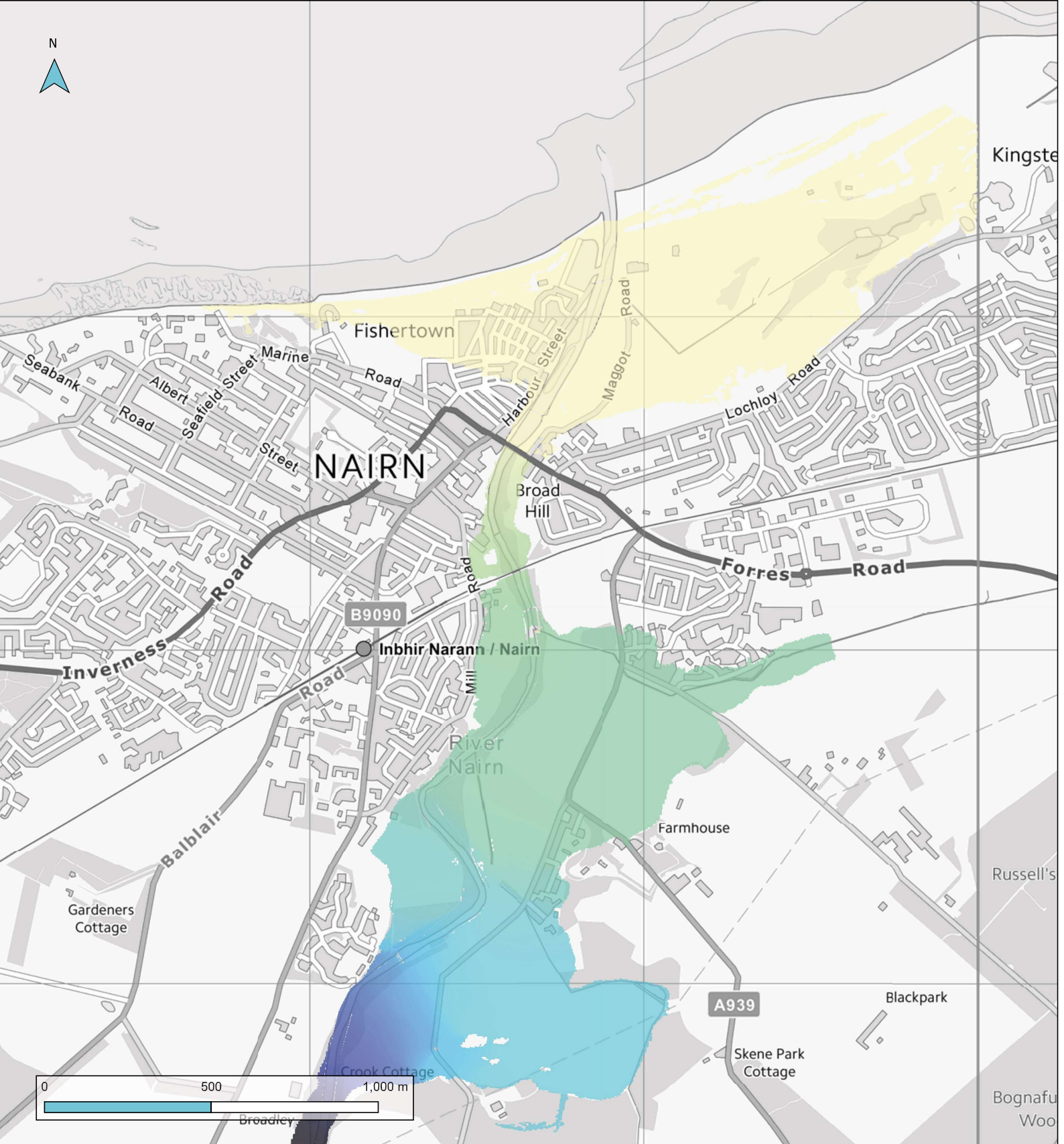and Coastal Peak Flood Level

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P01    **Date:**    30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_
Fluvial&Coastal_Flood_Level_Maps

Whiteness Head
Culbin
Forest
Cloddymoss
NAIRN
Kingsteps
Blackcastle
Gollanfield
Muir of
the Clans
Lochside
Brackley
Hosefield
Clephanton
Piperhill
Geddes
House
Cawdor
Culcharry
Littlemill
Mid Urchany
Fornighty
Brodie
Castle
Auldearn
Milton
Darna
Fore
Laiken
Forest
B9092
A96
A939

N

NAIRN

Fishertown
Seabank
Albert Road
Seafield Street
Marine Road
Harbour Street
Broad Hill
Forres Road
Lochloy Road
Maggot Road
Inverness Road
B9090
Inbhir Narann / Nairn
Mill Road
River Nairn
Balblair
Gardeners Cottage
Farmhouse
A939
Blackpark
Skene Park Cottage
Crook Cottage
Broadley
Russell's
Bognafu Woo
Kingste

0  500  1,000 m

**Legend**

Do Nothing Scenario Combine

DN_200yrCC1_Level
Band 1

| | |
|---|---|
| | 6 - 8mAOD |
| | 8- - 10mAOD |
| | 10 - 12mAOD |
| | 12 - 14mAOD |
| | 14+mAOD |

**Title**

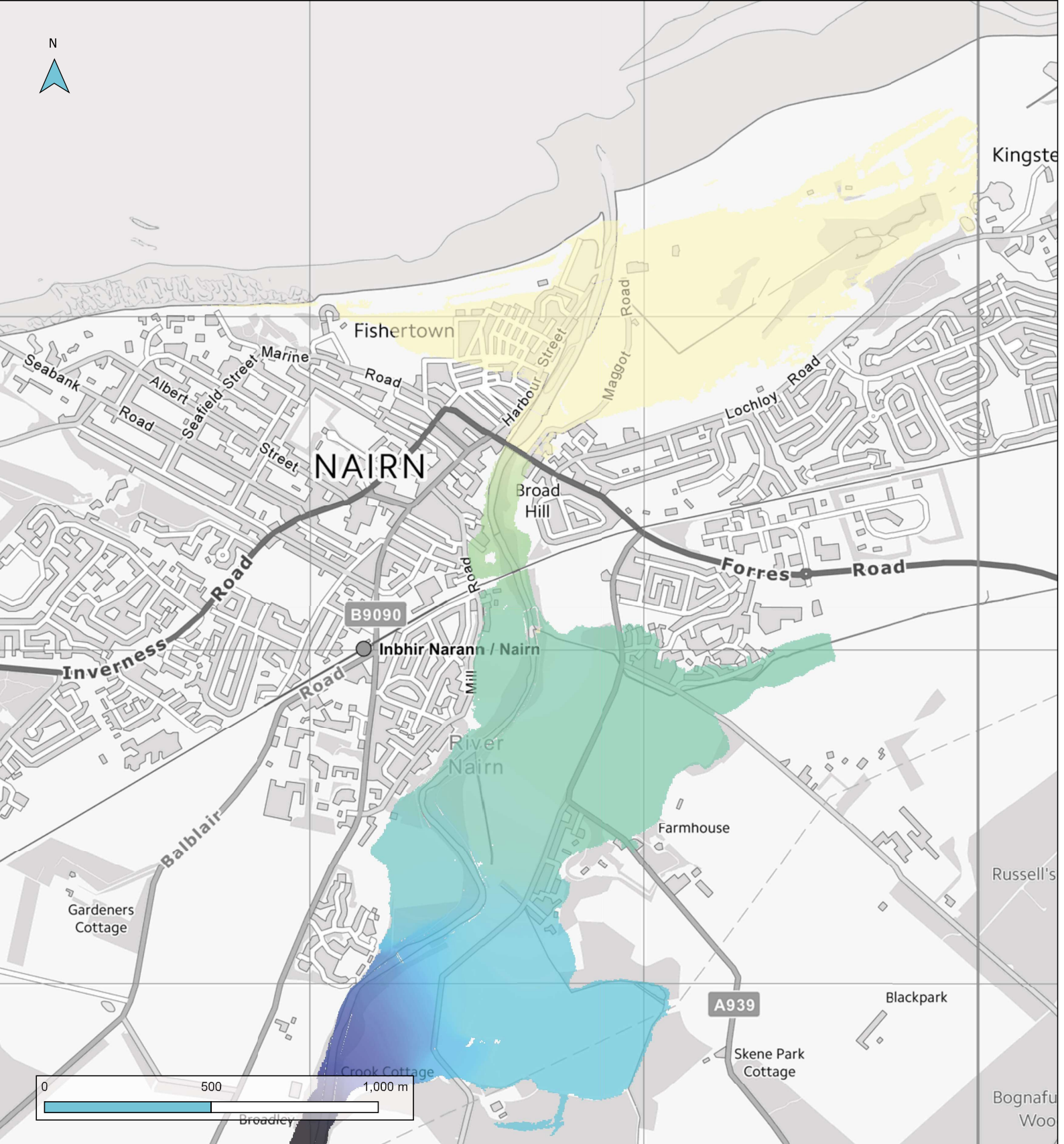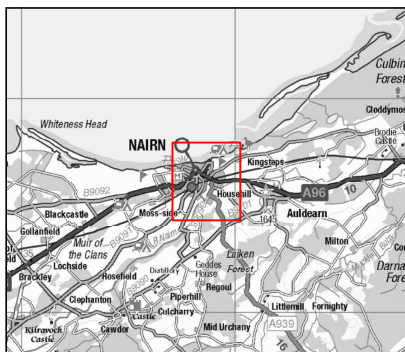1:200 Year +Climate Change Scenario 1 'Do Nothing' Fluvial and Coastal Peak Flood Level

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P01   **Date:** 30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_Fluvial&Coastal_Flood_Level_Maps

N

NAIRN

FISHERTOWN

Seabank
Albert Road
Seafield Street
Marine
Road
Street

NAIRN

Broad
Hill

Maggot Road

Lochloy Road

Forres Road

Inverness Road

B9090

Inbhir Narann / Nairn

Mill Road

River Nairn

Balblair

Gardeners
Cottage

Farmhouse

Russell's

A939

Blackpark

Skene Park
Cottage

Crook Cottage

Broadley

Bognafu
Woo

Kingste

0        500        1,000 m

**Legend**

Do Nothing Scenario Combine

DN_200yrCC2_Level
    Band 1

| | 6 - 8mAOD |
| | 8- - 10mAOD |
| | 10 - 12mAOD |
| | 12 - 14mAOD |
| | 14+mAOD |

**Title**

1:200 Year+Climate Change
Scenario 2 'Do Nothing' Fluvial
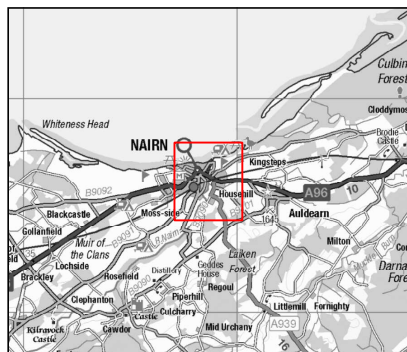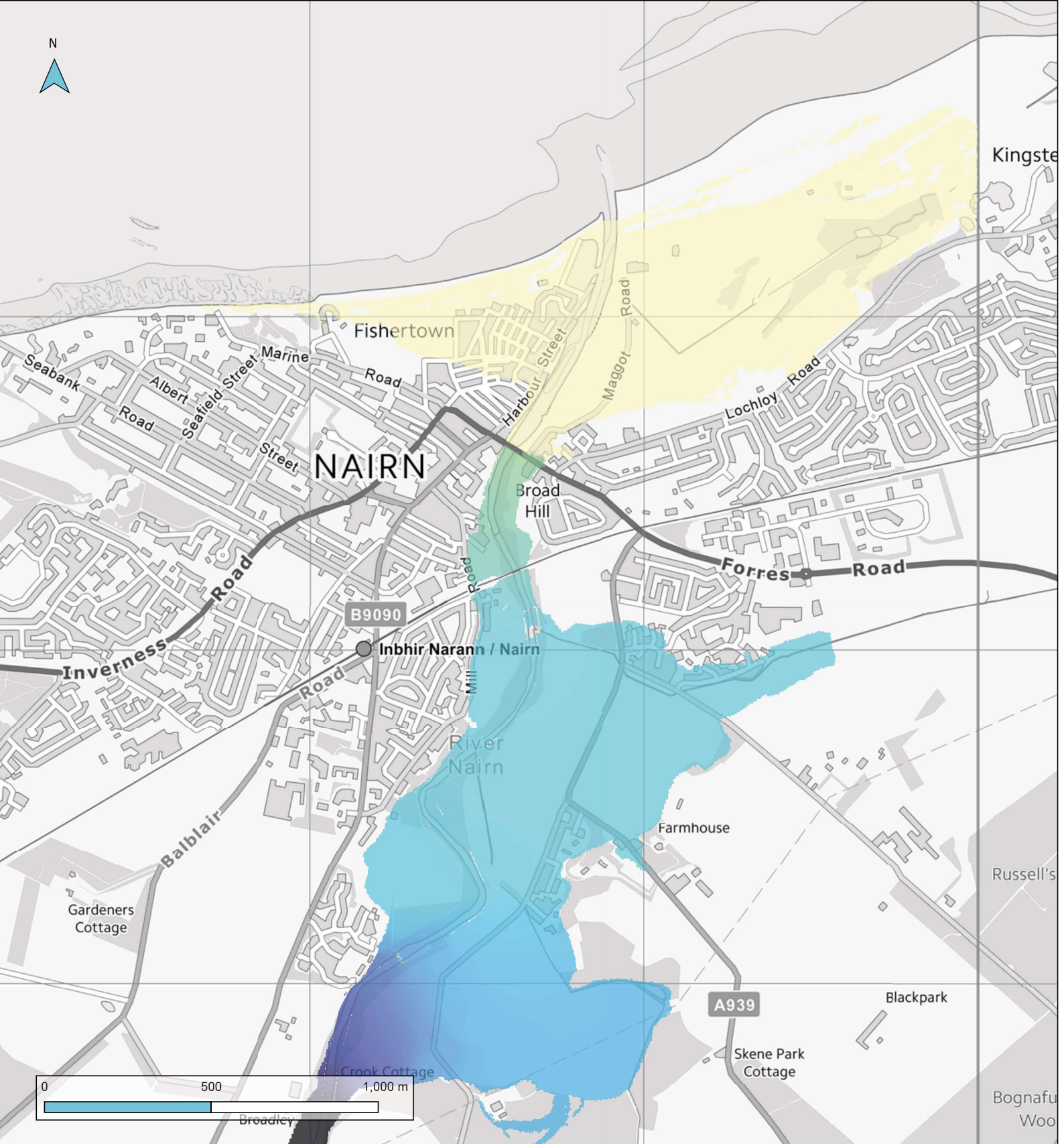and Coastal Peak Flood Level

Flood Depth Map

Nairn Flood Risk Appraisal

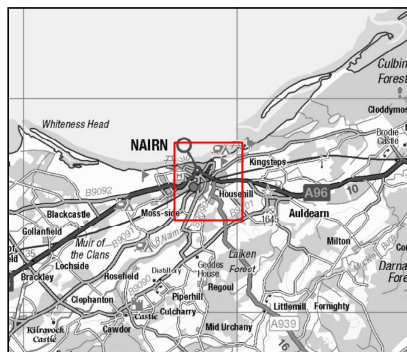**Revision:** P01        **Date:**        30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_
Fluvial&Coastal_Flood_Level_Maps

N

NAIRN

FISHERTOWN

Broad Hill

Inbhir Narann / Nairn

River Nairn

Farmhouse

Russell's

Blackpark

Skene Park Cottage

Bognafu Woo

Crook Cottage

Broadley

Gardeners Cottage

Kingste

0          500          1,000 m

**Legend**

**Do Nothing Scenario Combine**

DN_1000yr_Level
Band 1

| | |
|---|---|
| | 6 - 8mAOD |
| | 8- - 10mAOD |
| | 10 - 12mAOD |
| | 12 - 14mAOD |
| | 14+mAOD |

**Title**

1:1000 Year 'Do Nothing' Fluvial and Coastal Peak Flood Level

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P01          **Date:**          30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_
Fluvial&Coastal_Flood_Level_Maps

N

Kingste

FISHERTOWN

NAIRN

Broad
Hill

Forres Road

Inverness Road

B9090

Inbhir Narann / Nairn

River
Nairn

Farmhouse

A939

Blackpark

Skene Park
Cottage

Crook Cottage

Broadley

Russell's

Bognafu
Woo

Gardeners
Cottage

Balblair

0   500   1,000 m

**Legend**

**Do Nothing Scenario Combine**

DN_1000yrCC1_Level
Band 1

- ☐ 6 - 8mAOD
- ☐ 8- - 10mAOD
- ☐ 10 - 12mAOD
- ☐ 12 - 14mAOD
- ☐ 14+mAOD

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**Title**

1:1000 Year+Climate Change Scenario 1 'Do Nothing' Fluvial and Coastal Peak Flood Level

Flood Depth Map

Nairn Flood Risk Appraisal

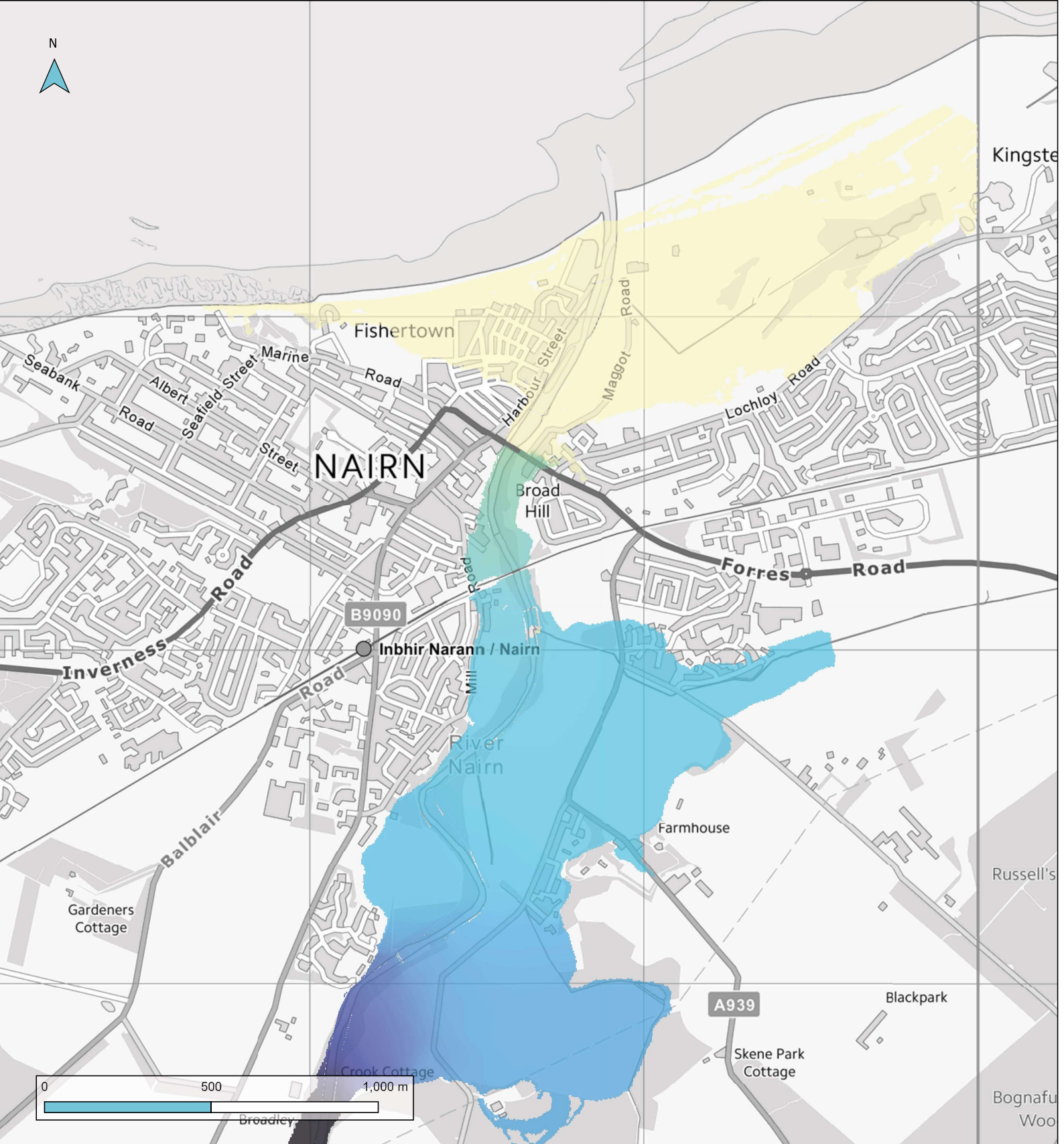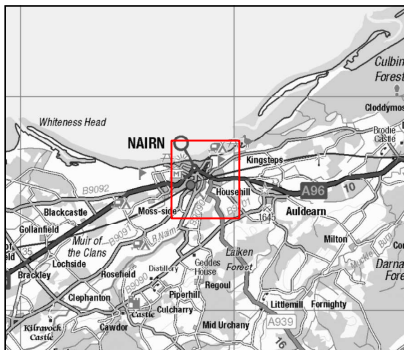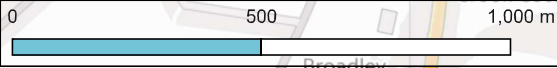**Revision:** P01      **Date:**      30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_
Fluvial&Coastal_Flood_Level_Maps

N

NAIRN

FISHERTOWN

Seabank Albert Road

Seafield Street

Marine Road

Harbour Street

Broad Hill

Maggot Road

Lochloy Road

Kingste

Forres Road

Inverness Road

B9090

Inbhir Narann / Nairn

Mill Road

River Nairn

Balblair

Gardeners Cottage

Farmhouse

Russell's

A939

Blackpark

Skene Park Cottage

Crook Cottage

Broadley

Bognafu Woo

0        500        1,000 m

**Legend**

Do Nothing Scenario Combine

DN_1000yrCC2_Level
    Band 1

■ 6 - 8mAOD

■ 8- - 10mAOD

■ 10 - 12mAOD

■ 12 - 14mAOD

■ 14+mAOD

**Title**

1:1000 Year+Climate Change
Scenario 2 'Do Nothing' Fluvial
and Coastal Peak Flood Level
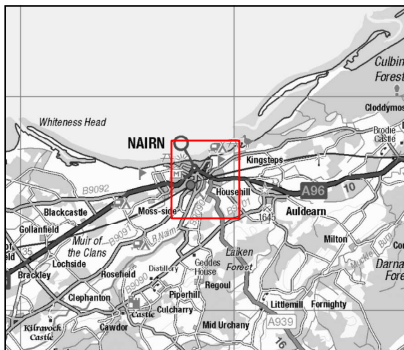
Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P01        **Date:** 30/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0013-S4-P01-DN_
Fluvial&Coastal_Flood_Level_Maps

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JBA consulting

## A.4 Flood velocity maps

**Legend**

**Flood Velocity (m/s)**

DN_2yr_Velocity
Band 1

| | |
|---|---|
| 1.00m/s | |
| 2.00m/s | |
| 3.00m/s | |
| 4.00m/s | |
| 5.00+m/s | |

**Title**

1:2 Year 'Do Nothing' Fluvial
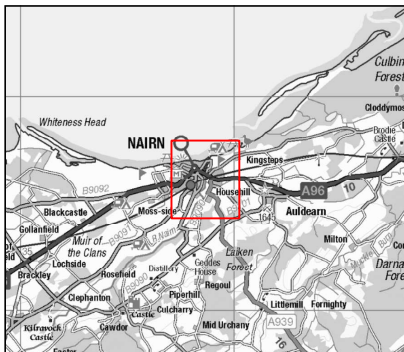and Coastal Flood Velocity
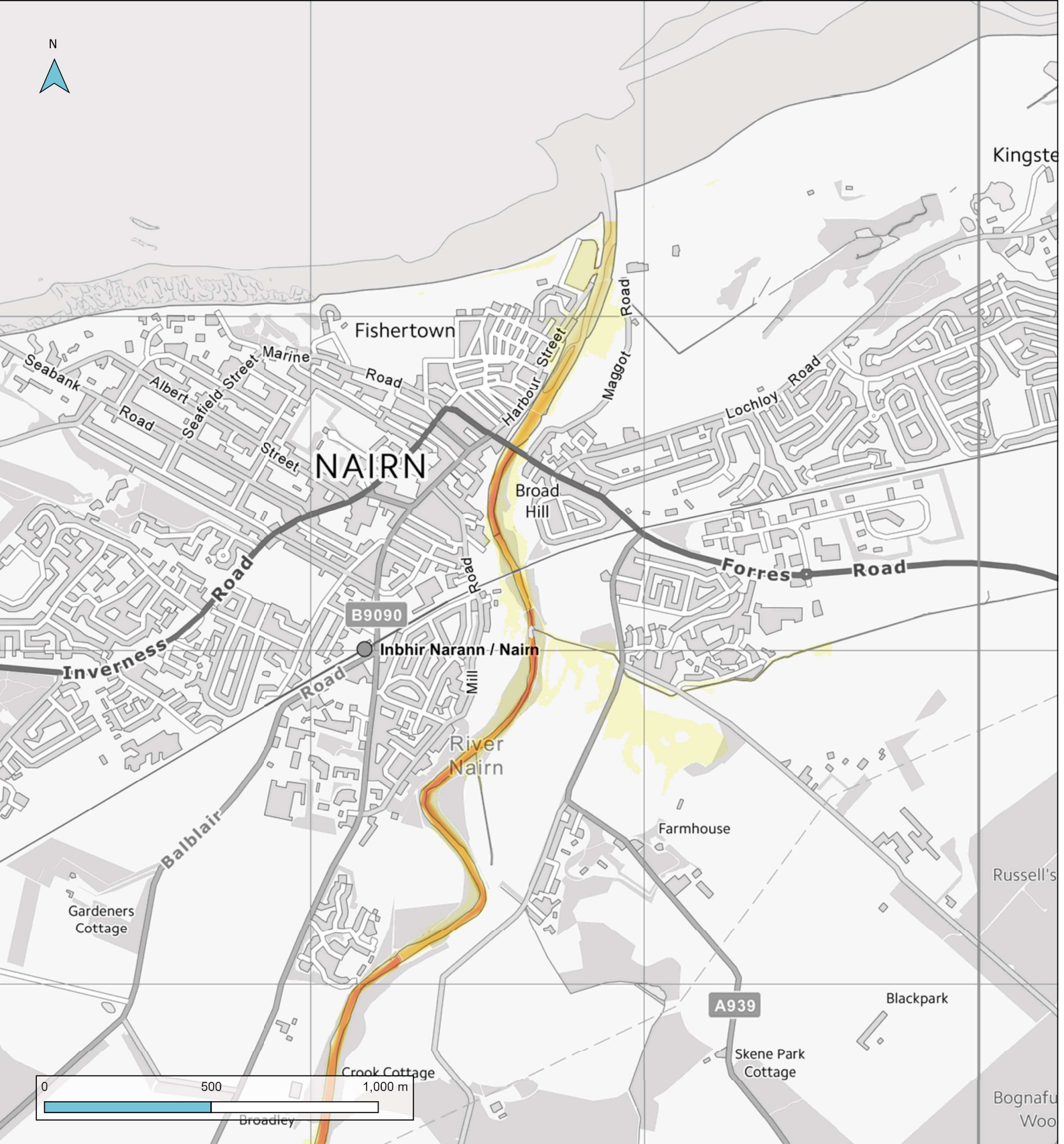
Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P02      **Date:**      31/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0014-S4-P01-
DN_Fluvial&Coastal_Flood_Velocity_Maps

N

NAIRN

Fishertown

Seabank Road
Albert Road
Seafield Street
Marine Road
Harbour Street
Broad Hill
Maggot Road
Lochloy Road
Forres Road
Kingste

Inverness Road
B9090
Inbhir Narann / Nairn
Mill Road
River Nairn

Balblair
Gardeners Cottage
Farmhouse
Russell's
Blackpark
A939
Skene Park Cottage
Crook Cottage
Broadley
Bognafu Woo

0      500      1,000 m

**Legend**

Flood Velocity (m/s)

DN_5yr_Velocity
   Band 1
   ▢ 1.00m/s
   ▢ 2.00m/s
   ▢ 3.00m/s
   ▢ 4.00m/s
   ▢ 5.00+m/s

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**Title**

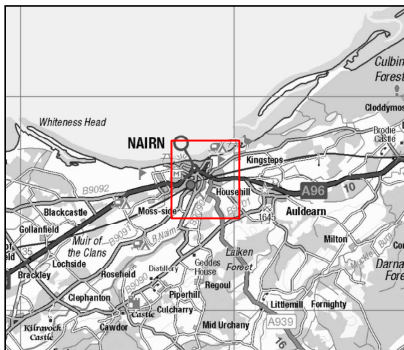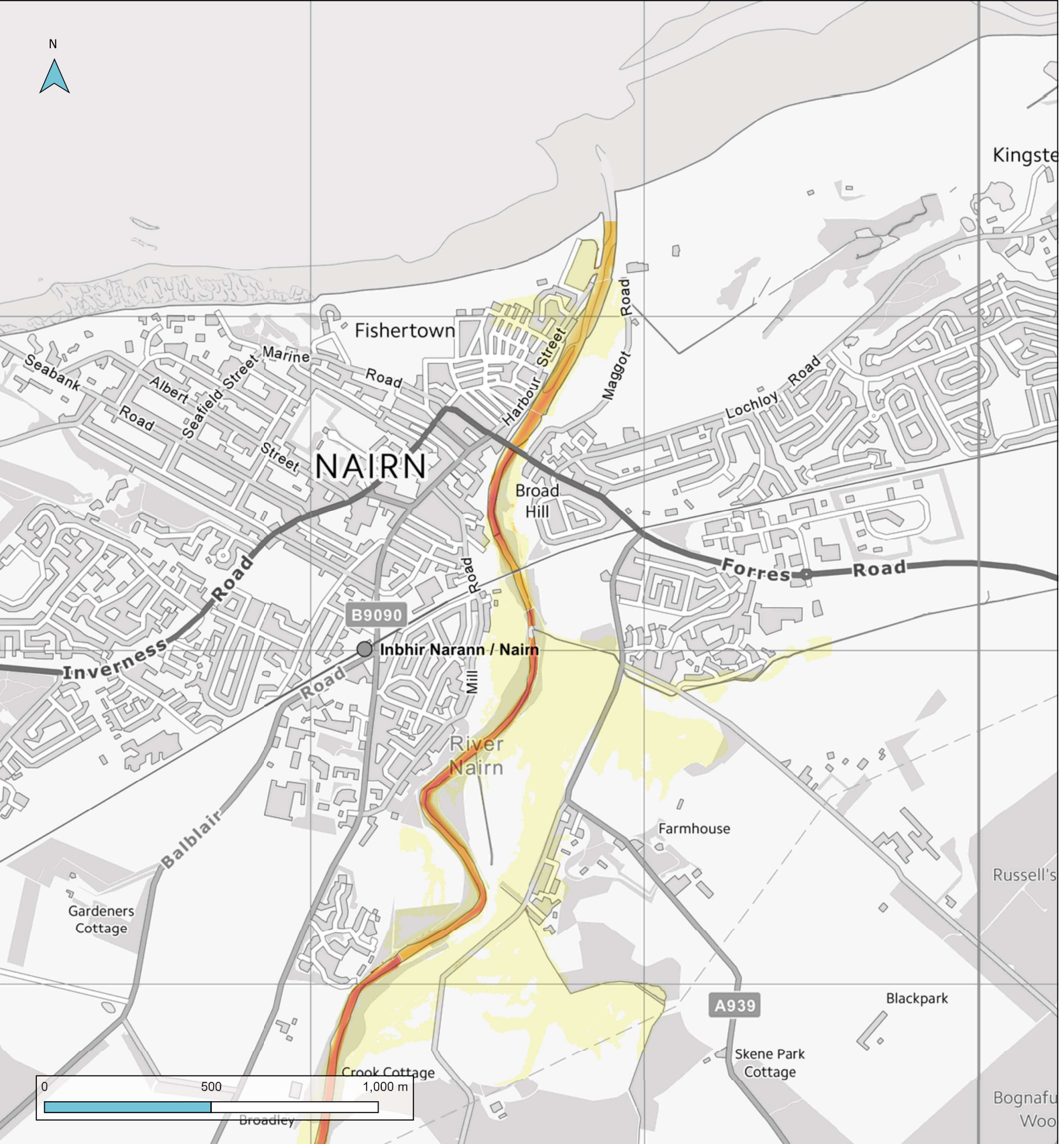1:5 Year 'Do Nothing' Fluvial and Coastal Flood Velocity

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P02      **Date:** 31/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0014-S4-P01-DN_Fluvial&Coastal_Flood_Velocity_Maps

N

NAIRN

FISHERTOWN

Broad Hill

Inbhir Narann / Nairn

River Nairn

Farmhouse

Blackpark

Skene Park Cottage

Crook Cottage

Broadley

Gardeners Cottage

Crook Cottage

Seabank Road
Albert Road
Seafield Street
Marine Road
Harbour Street
Maggot Road
Lochloy Road
Forres Road
Inverness Road
Balblair
Mill Road
B9090
A939
A96

Russell's

Bognafu... Woo...

Kingste...

0       500       1,000 m

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## Legend

### Flood Velocity (m/s)

DN_10yr_Velocity
Band 1

- 1.00m/s
- 2.00m/s
- 3.00m/s
- 4.00m/s
- 5.00+m/s

## Title

1:10 Year 'Do Nothing' Fluvial and Coastal Flood Velocity

Flood Depth Map
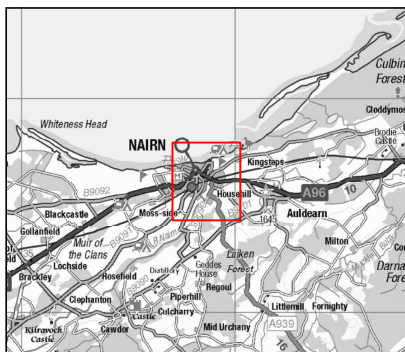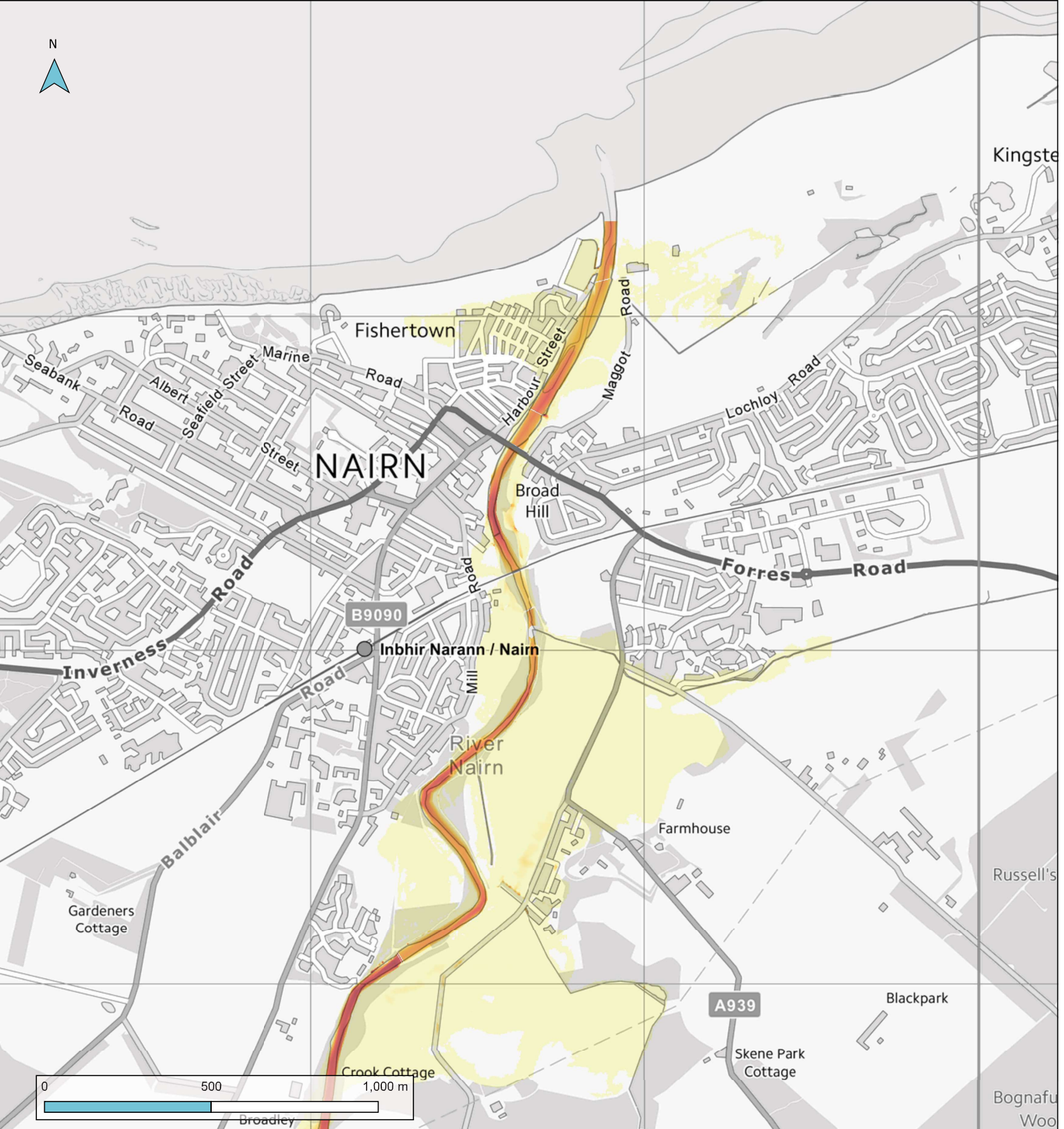
Nairn Flood Risk Appraisal

**Revision:** P02     **Date:**     31/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0014-S4-P01-DN_Fluvial&Coastal_Flood_Velocity_Maps

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Old Lane North
Broughton
Skipton
North Yorkshire
BD23 3FD
+44 (0)1756 799 919
info@jbaconsulting.com

JBA consulting

www.jbaconsulting.com

N

NAIRN

Kingste

Kingsteps

Fishertown

Seabank Road
Albert Road
Seafield Street
Marine Road
Marine Road

Harbour Street

Maggot Road

Lochloy Road

Broad Hill

Forres Road

Street

B9090

Mill Road

Inbhir Narann / Nairn

Inverness Road

Balblair

Road

River Nairn

Gardeners Cottage

Farmhouse

Russell's

A939

Blackpark

Skene Park Cottage

Crook Cottage

Broadley

Bognafu Woo

0    500    1,000 m

**Legend**

**Flood Velocity (m/s)**

DN_30yr_Velocity
Band 1

- 1.00m/s
- 2.00m/s
- 3.00m/s
- 4.00m/s
- 5.00+m/s

**Title**

1:30 Year 'Do Nothing' Fluvial and Coastal Flood Velocity

Flood Depth Map

Nairn Flood Risk Appraisal

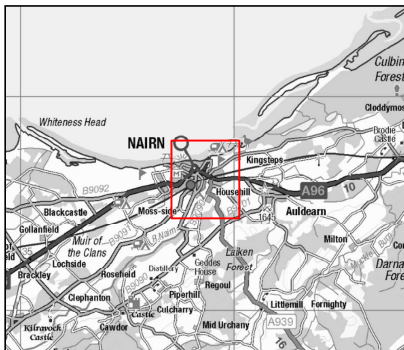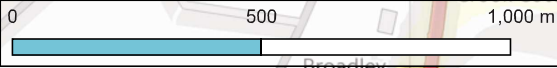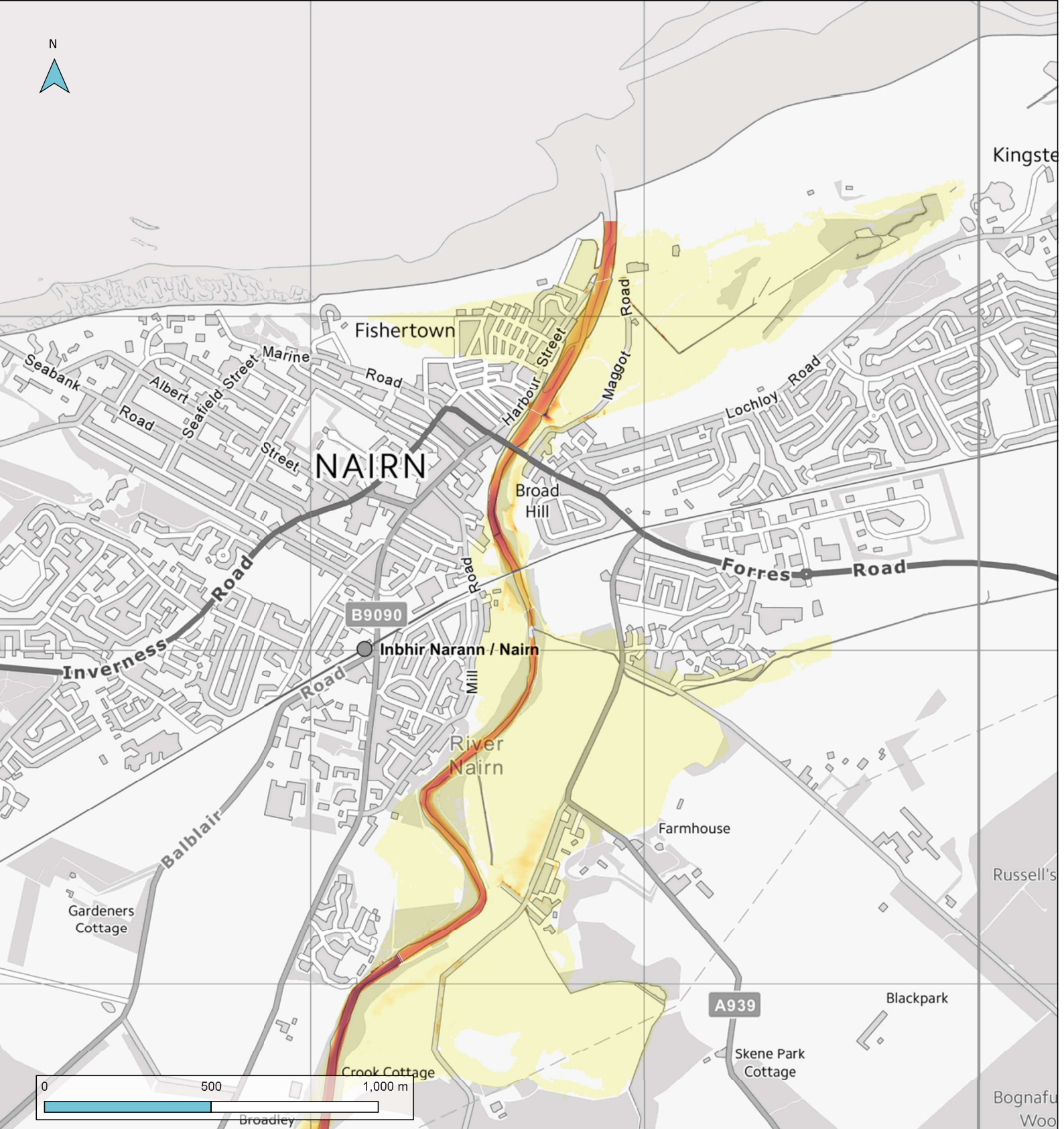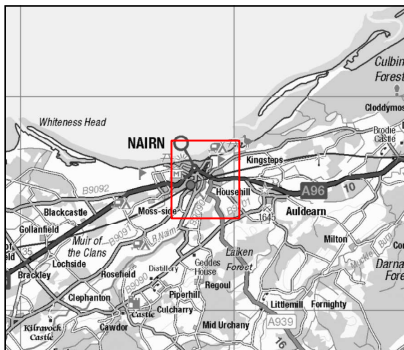**Revision:** P02     **Date:**     31/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0014-S4-P01-DN_Fluvial&Coastal_Flood_Velocity_Maps

NAIRN
Whiteness Head
Culbin Forest
Cloddymos
Brodie Castle
Kingsteps
Househill
Moss-side
Auldearn
Gollanfield
Muir of the Clans
Lochside
Hosefield
Distillery
Geddes House
Piperhill
Milton
Brackley
Clephanton
Castle
Culcharry
Regoul
Littlemill
Fornighty
Kilravock Castle
Cawdor
Mid Urchany
Darna Fore

N

NAIRN

Inbhir Narann / Nairn

River Nairn

Fishertown
Broad Hill
Seabank Road
Albert Road
Seafield Street
Marine Road
Harbour Street
Maggot Road
Lochloy Road
Forres Road
Inverness Road
B9090
Mill Road
Balblair
Gardeners Cottage
Farmhouse
Russell's
Blackpark
Skene Park Cottage
A939
Crook Cottage
Broadley
Bognafu Woo
Kingste

0        500        1,000 m

Title

1:100 Year 'Do Nothing' Fluvial and Coastal Flood Velocity

Flood Depth Map

Nairn Flood Risk Appraisal

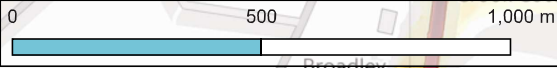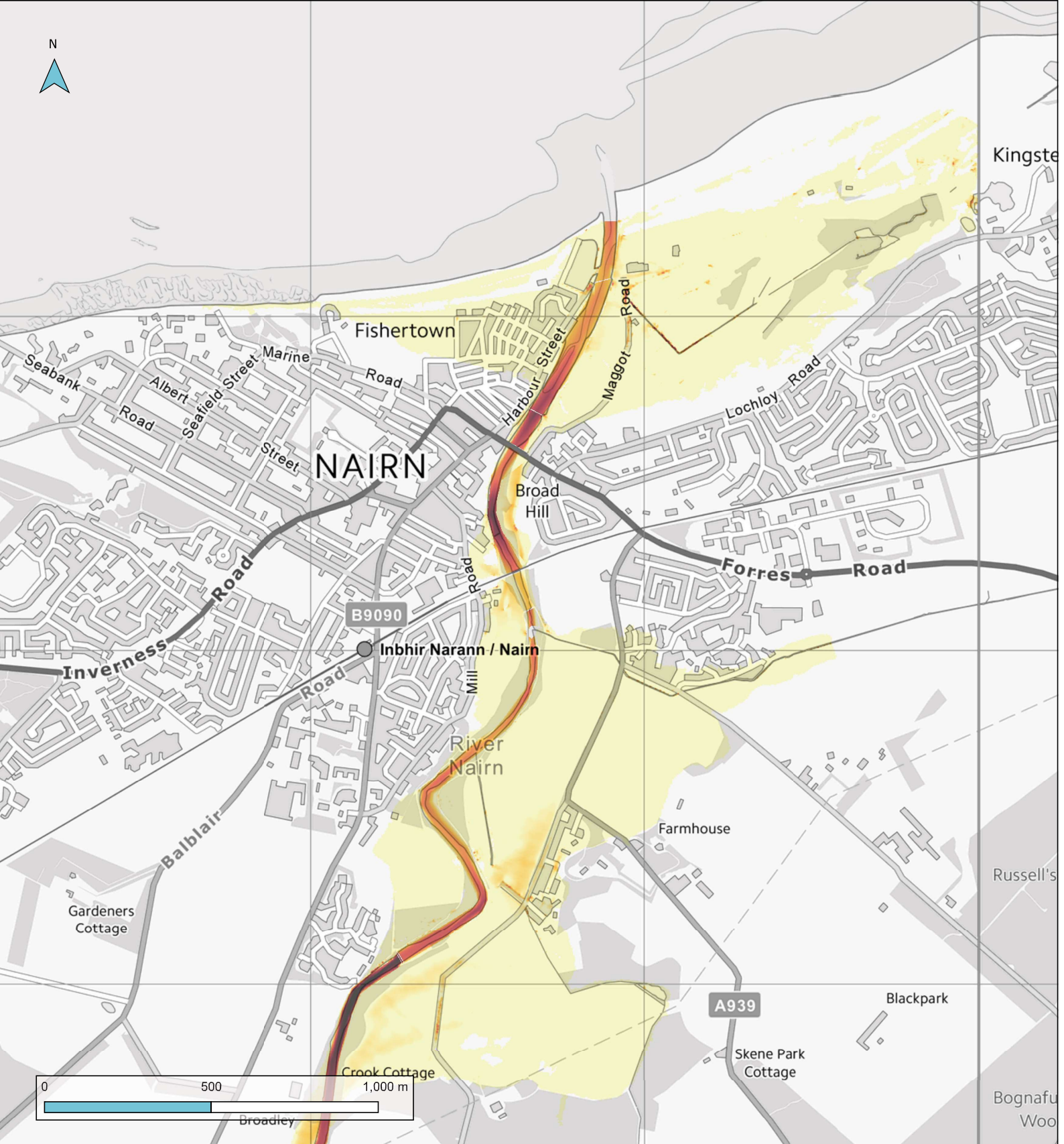**Revision:** P02        **Date:**        31/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0014-S4-P01-DN_Fluvial&Coastal_Flood_Velocity_Maps

## Legend

**Flood Velocity (m/s)**

DN_200yr_Velocity
Band 1

- 1.00m/s
- 2.00m/s
- 3.00m/s
- 4.00m/s
- 5.00+m/s

## Title

**1:200 Year 'Do Nothing' Fluvial
and Coastal Flood Velocity**

Flood Depth Map

Nairn Flood Risk Appraisal

**Revision:** P02      **Date:**     31/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0014-S4-P01-
DN_Fluvial&Coastal_Flood_Velocity_Maps

N

0    500    1,000 m

**Legend**

Flood Velocity (m/s)

DN_200yrCC1_Velocity
Band 1

- 1.00m/s
- 2.00m/s
- 3.00m/s
- 4.00m/s
- 5.00+m/s

**Title**

1:200 Year +Climate Change Scenario 1 'Do Nothing' Fluvial and Coastal Flood Velocity

Flood Depth Map
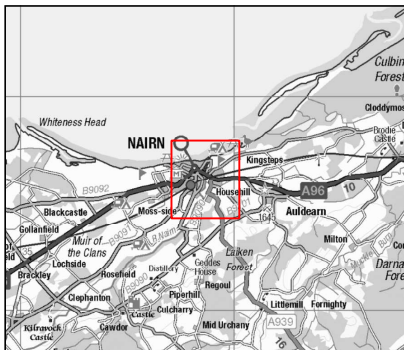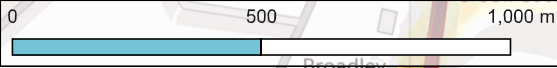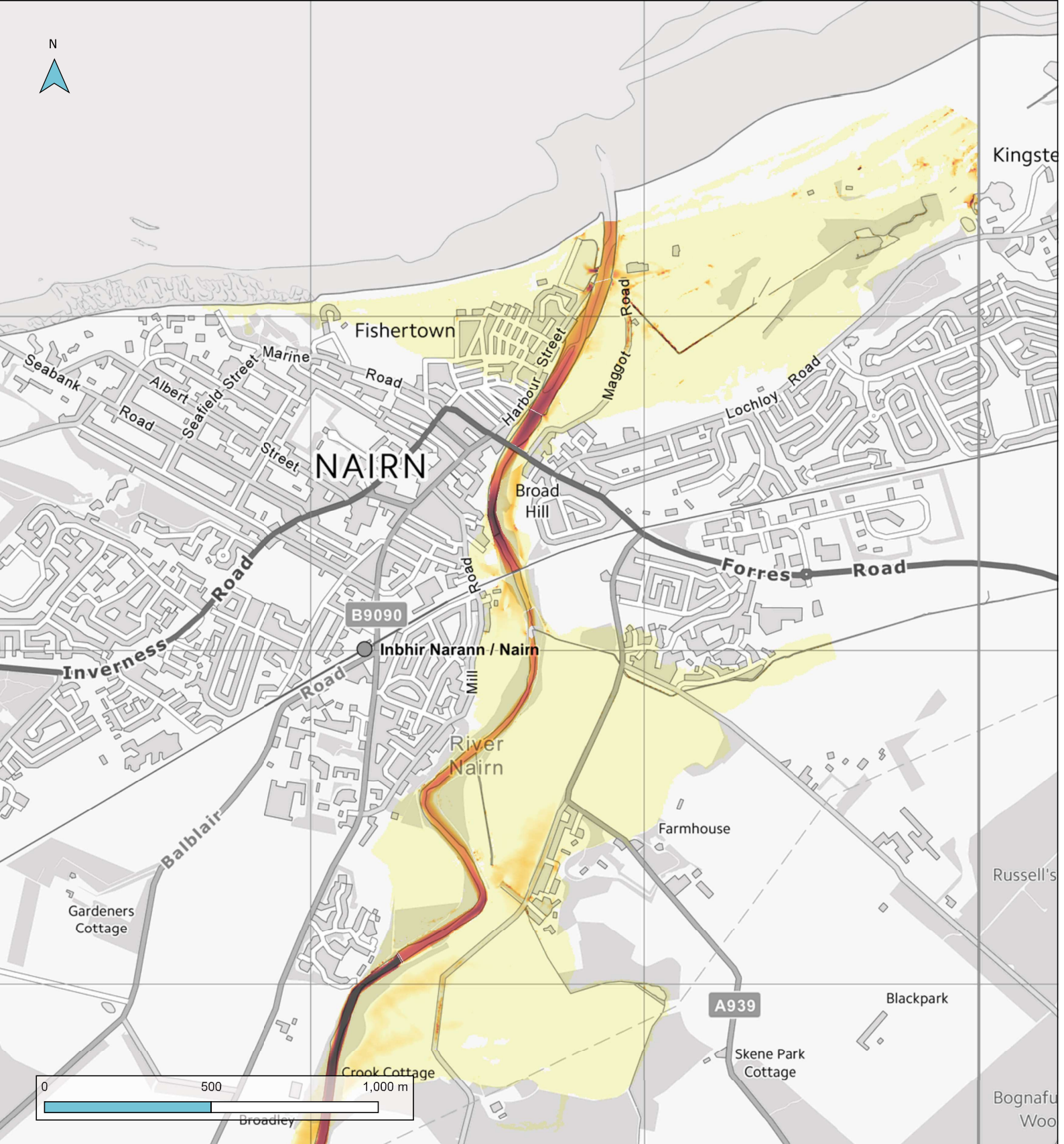
Nairn Flood Risk Appraisal

**Revision:** P02    **Date:**    31/03/2023
**File Name:**
IGZ-JBAU-00-00-FI-HM-0014-S4-P01-DN_Fluvial&Coastal_Flood_Velocity_Maps

NAIRN

Fishertown

Seabank

Albert Road

Seafield Street

Marine Road

Street

Harbour Street

Maggot Road

Lochloy Road

Broad Hill

Forres Road

Inverness Road

B9090

Inbhir Narann / Nairn

Mill Road

River Nairn

Balblair

Farmhouse

Russell's

Gardeners Cottage

A939

Blackpark

Skene Park Cottage

Crook Cottage

Broadley

Bognafu Woo

Kingste

Kingste

0    500    1,000 m

Legend

Flood Velocity (m/s)

DN_200yrCC2_Velocity
Band 1

1.00m/s
2.00m/s
3.00m/s
4.00m/s
5.00+m/s

Title

1:200 Year+Climate Change Scenario 2 'Do Nothing' Fluvial and Coastal Flood Velocity

Flood Depth Map

Nairn Flood Risk Appraisal

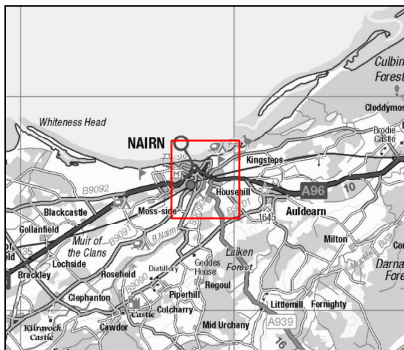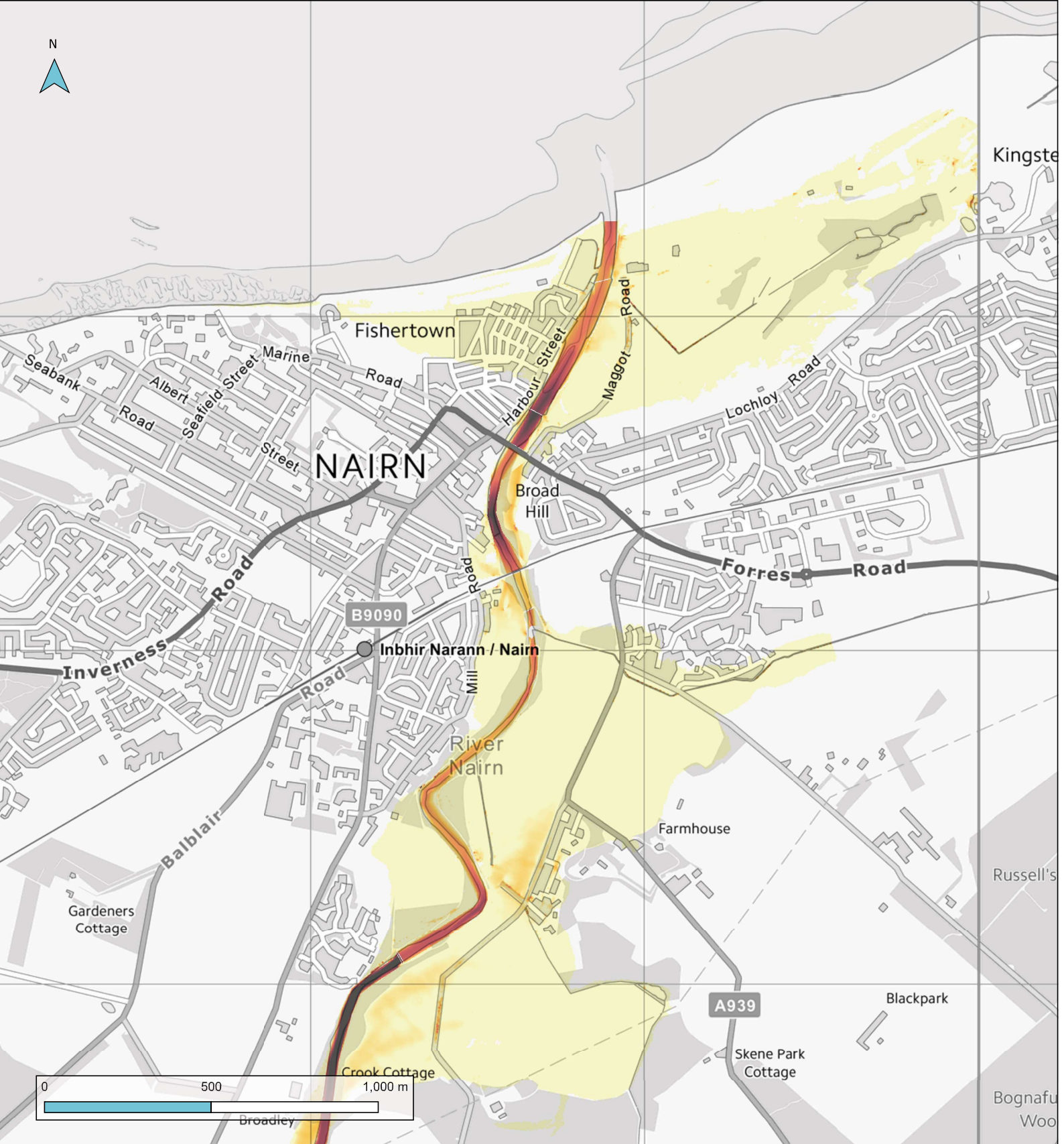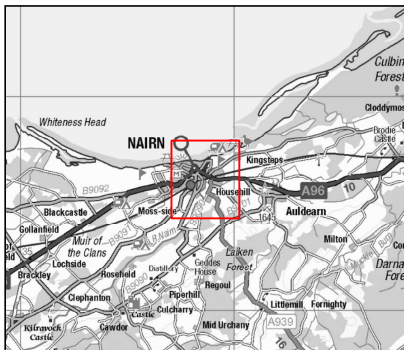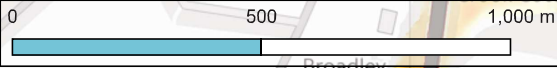**Revision:** P02     **Date:**     31/03/2023
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Old Lane North
Broughton
Skipton
North Yorkshire
BD23 3FD
+44 (0)1756 799 919
info@jbaconsulting.com

JBA consulting

Inset map labels:
Culbin Forest
Whiteness Head
Cloddymoss
NAIRN
Kingsteps
Brodie Castle
Househill
Moss-side
Blackcastle
Geddes House
Auldearn
Milton
Gollanfield
Muir of the Clans
Lochside
Piperhill
Regoul
Darna Forest
Brackley
Hosefield
Clephanton
Cawdor
Culcharry
Littlemill
Fornighty
Kilravock Castle
Mid Urchany
A939

www.jbaconsulting.com

NAIRN

Fishertown

Marine Road
Seabank Road
Albert Road
Seafield Street

Harbour Street
Maggot Road
Lochloy Road

Broad Hill

Forres Road

B9090

Inbhir Narann / Nairn

Inverness Road

Balblair

River Nairn

Mill Road

Farmhouse

Gardeners Cottage

Russell's

Blackpark

A939

Skene Park Cottage

Crook Cottage

Broadley

Bognafu Woo

Kingste

| 0 | 500 | 1,000 m |

**Legend**

**Flood Velocity (m/s)**

DN_1000yr_Velocity
Band 1

- 1.00m/s
- 2.00m/s
- 3.00m/s
- 4.00m/s
- 5.00+m/s

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Whiteness Head
Culbin Forest
Cloddymoss
NAIRN
Kingsteps
Househill
Auldearn
Blackcastle
Moss-side
Gollanfield
Muir of the Clans
Lochside
Brackley
Piperhill
Geddes House
Regoul
Culcharry
Littlemill
Fornighty
Kilravock Castle
Cawdor
Mid Urchany
Darna Fore
Milton
Brodie Castle

Title

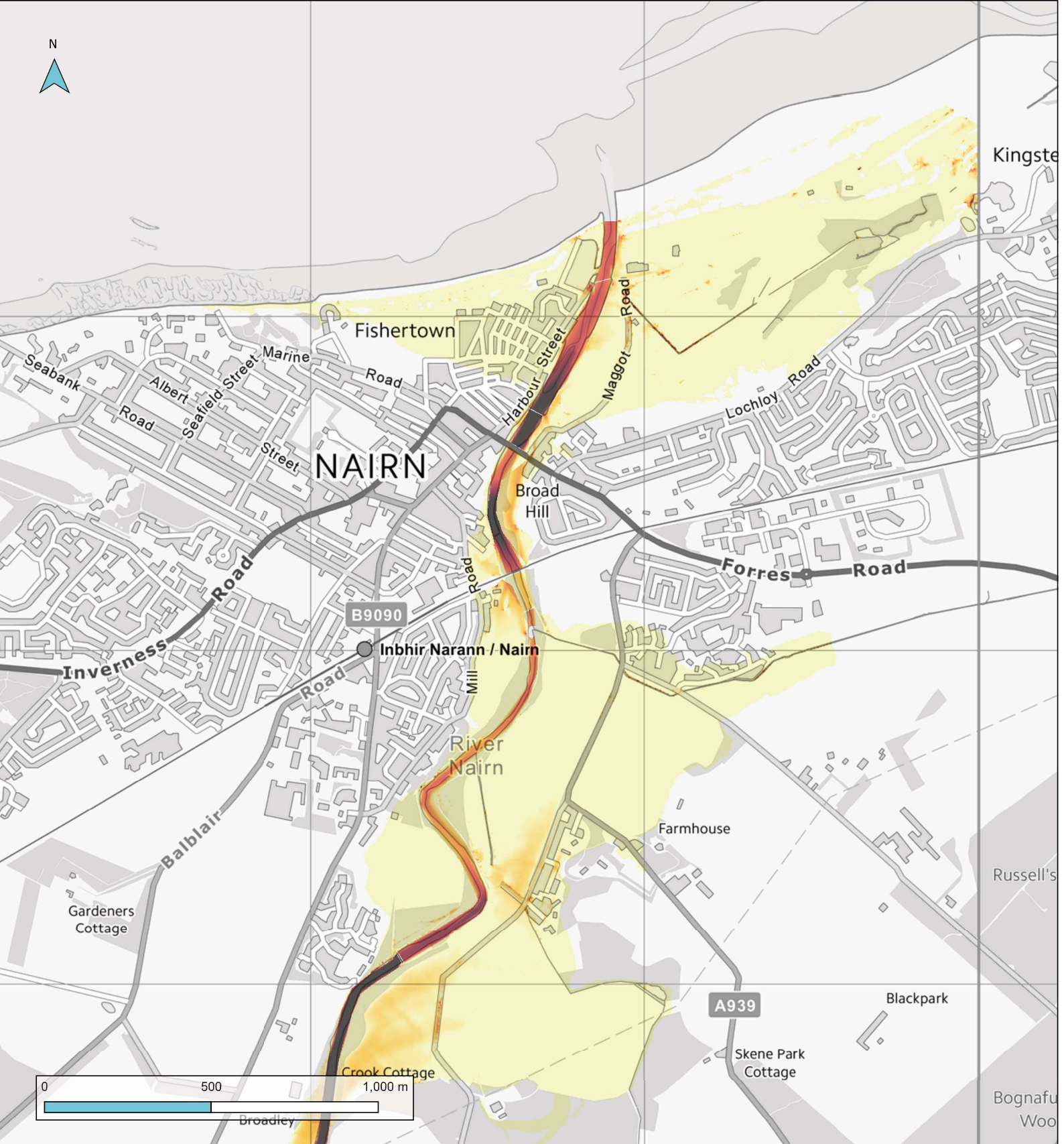**1:1000 Year 'Do Nothing' Fluvial and Coastal Flood Velocity**
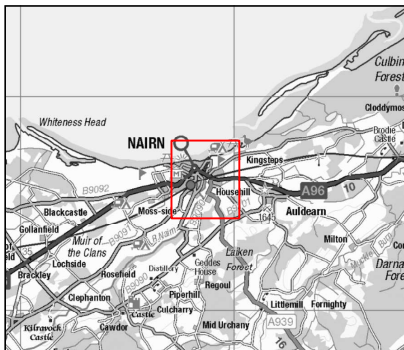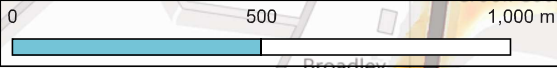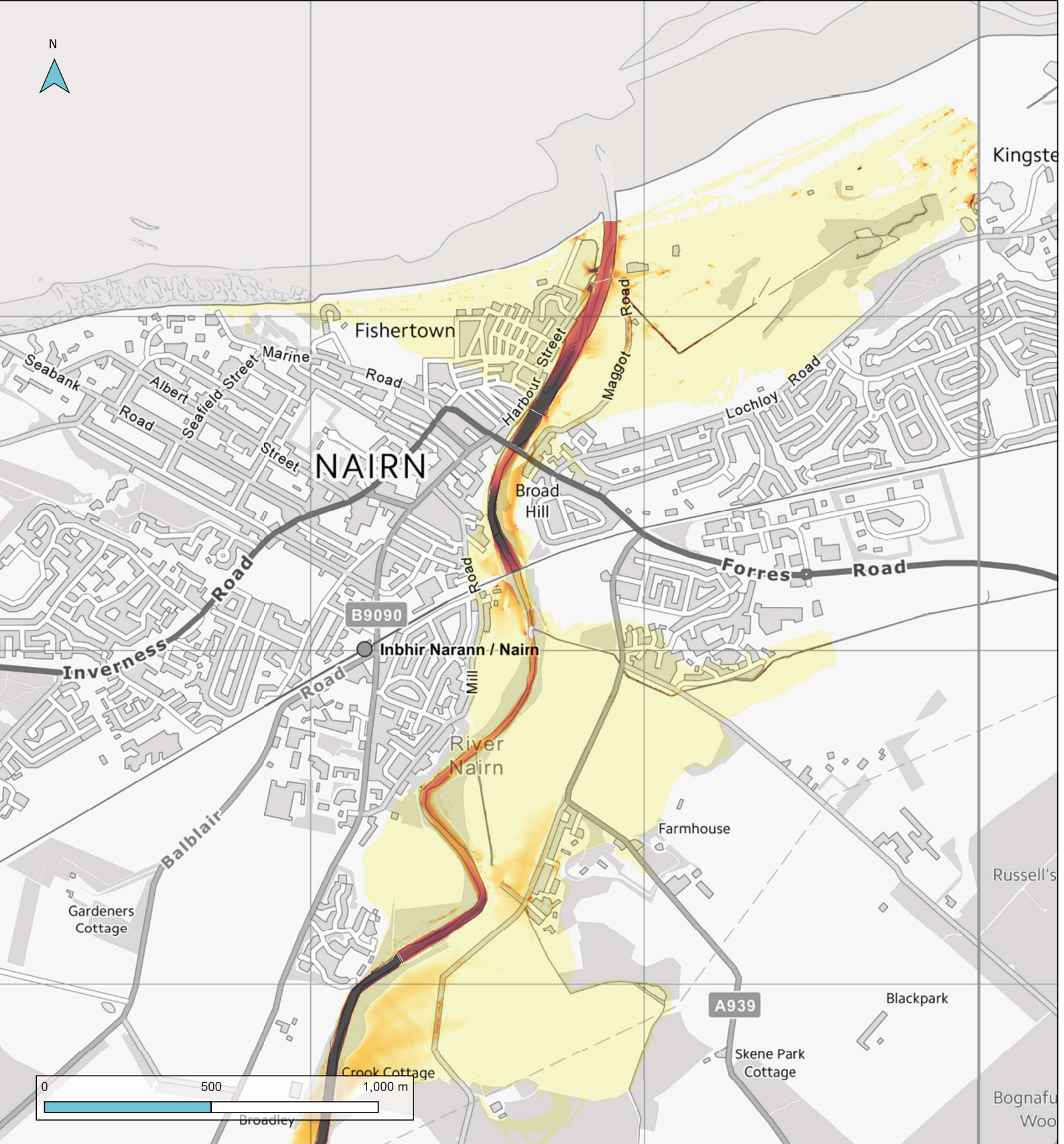
Flood Depth Map

Nairn Flood Risk Appraisal

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N

Kingste

Kingsteps

Fishertown

NAIRN

Inbhir Narann / Nairn

River
Nairn

Farmhouse

Russell's

Blackpark

Skene Park
Cottage

Crook Cottage

Bognafu
Woo

Broadley

Gardeners
Cottage

Seabank

Albert

Road

Seafield Street

Marine

Street

Road

Marine

Road

Harbour

Street

Maggot

Road

Broad
Hill

Lochloy

Road

Forres    Road

Inverness

Road

B9090

Balblair

Mill

Road

A939

| 0 | | 500 | | 1,000 m |

N

**Legend**

Flood Velocity (m/s)

DN_1000yrCC2_Velocity
Band 1

- 1.00m/s
- 2.00m/s
- 3.00m/s
- 4.00m/s
- 5.00+m/s

0    500    1,000 m

**Title**

1:1000 Year+Climate Change Scenario 2 'Do Nothing' Fluvial and Coastal Flood Velocity

Flood Depth Map

Nairn Flood Risk Appraisal

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