



Wylfa Newydd Project

6.4.29 ES Volume D - WNDA Development
App D8-4 - Flood Consequence Assessment
(Part 7/8)

PINS Reference Number: EN010007

Application Reference Number: 6.4.29

June 2018

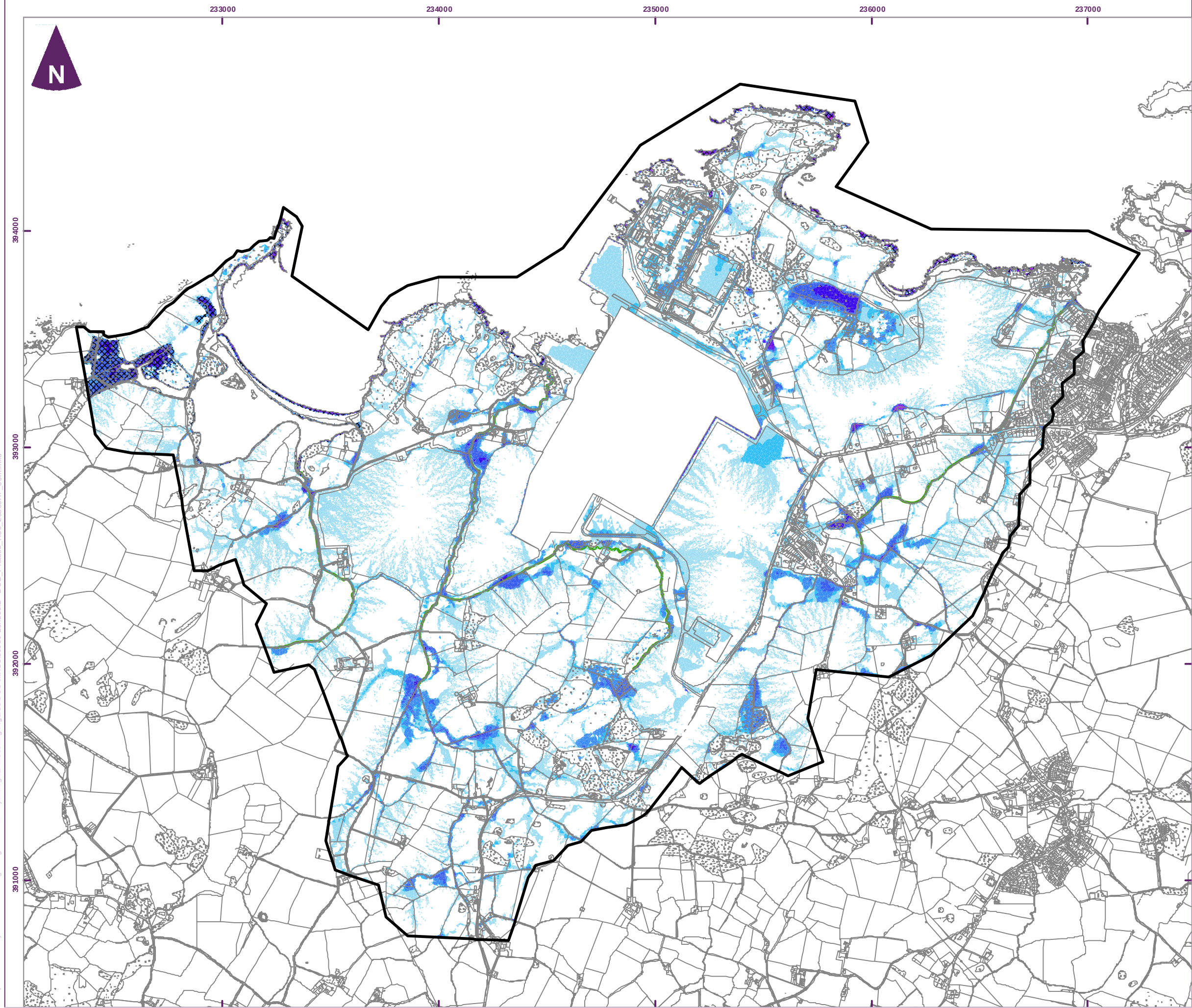
Revision 1.0

Regulation Number: 5(2)(a) and (e)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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Key

- Peak flood depth (m)
Reference Point 5
1 : 30 year AEP pluvial
60 min duration
Climate change 2080s -
reasonably foreseeable
- 0.01 - 0.05
 - 0.05 - 0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 0.75
 - 0.75 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00
- Model boundary
- MHS Extent 2080s
- Model river centreline

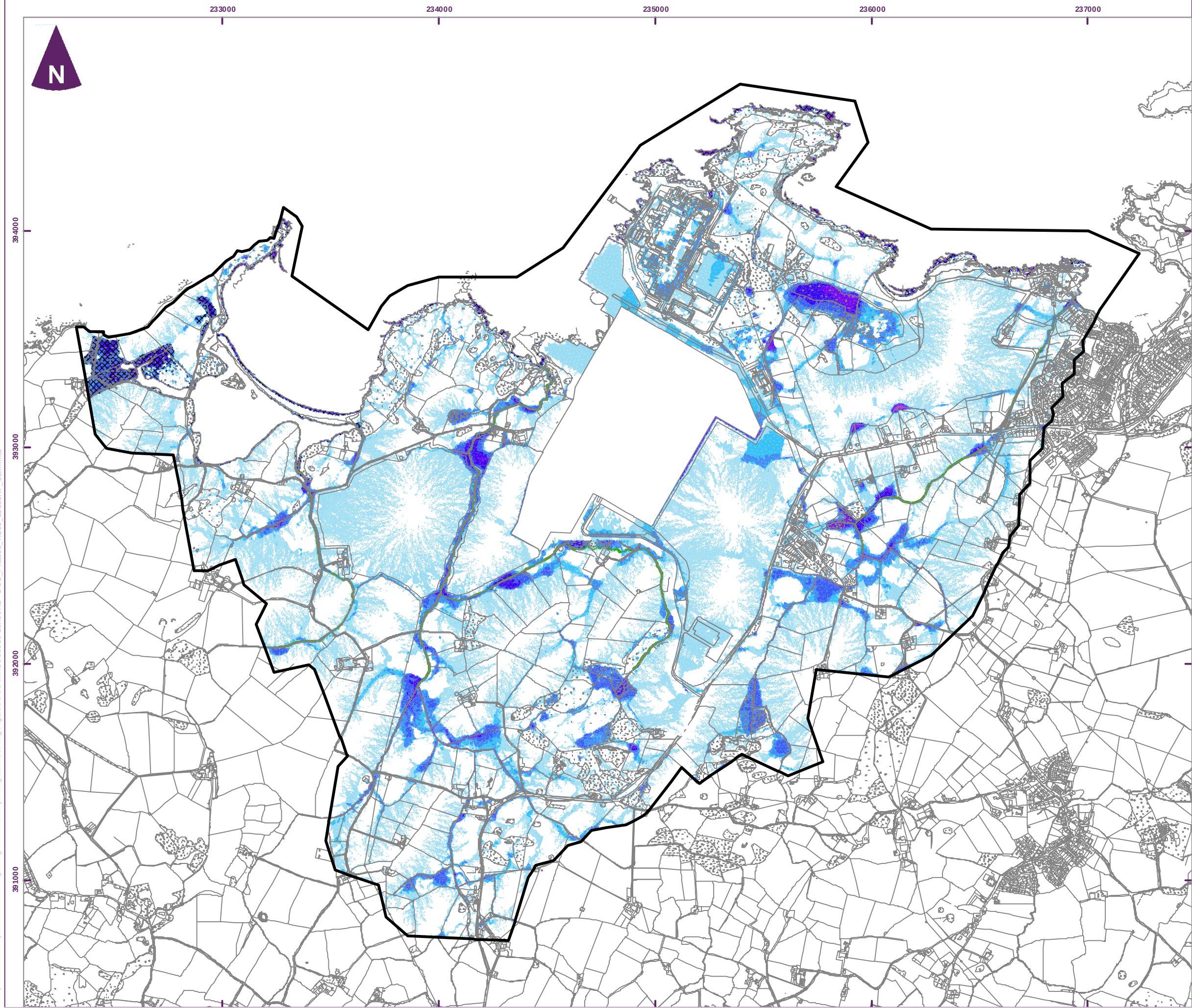
Notes:
The depths represent the maximum
depth achieved. The flood prediction
does not represent a moment in time
as maximum depths can be achieved
at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1253i2_DCO_Phase5_R30_
2080sRF_60m.xlsx



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Figure 67
DCO Reference Point 5 peak pluvial
depth 1:30 year AEP 60 min
duration climate change 2080s -
reasonably foreseeable



Key

Peak flood depth (m)

Reference Point 5

1 : 100 year AEP pluvial

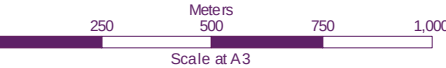
60 min duration

Climate change 2080s - reasonably foreseeable

	0.01 - 0.05
	0.05 - 0.10
	0.10 - 0.25
	0.25 - 0.50
	0.50 - 0.75
	0.75 - 1.00
	1.00 - 1.50
	1.50 - 2.00
	> 2.00
	Model boundary
	MHWS Extent 2080s
	Model river centreline

Notes:
The depths represent the maximum depth achieved. The flood prediction does not represent a moment in time as maximum depths can be achieved at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1254i2_DCO_Phase5_R100_2080sRF_60m.xlsx

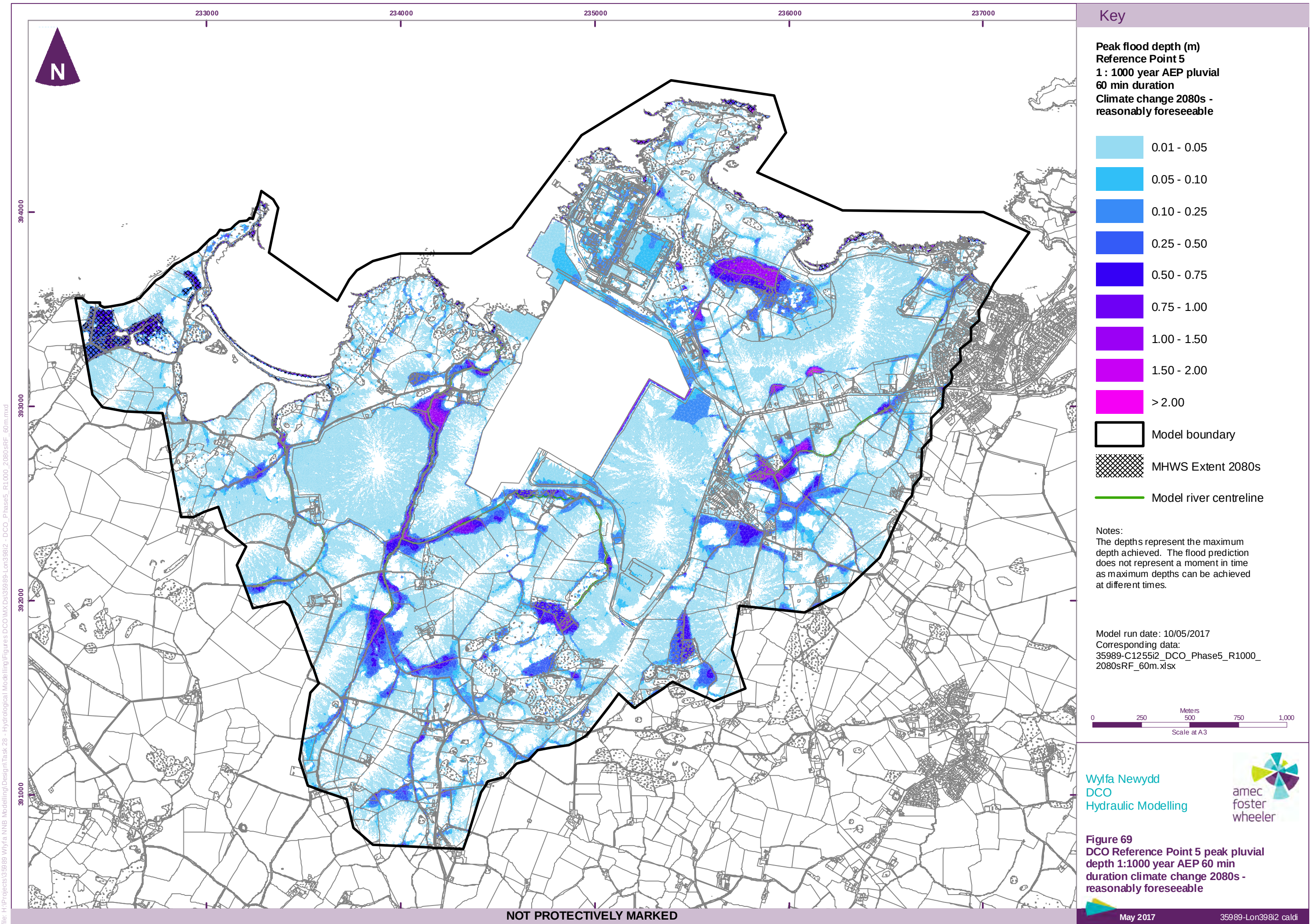


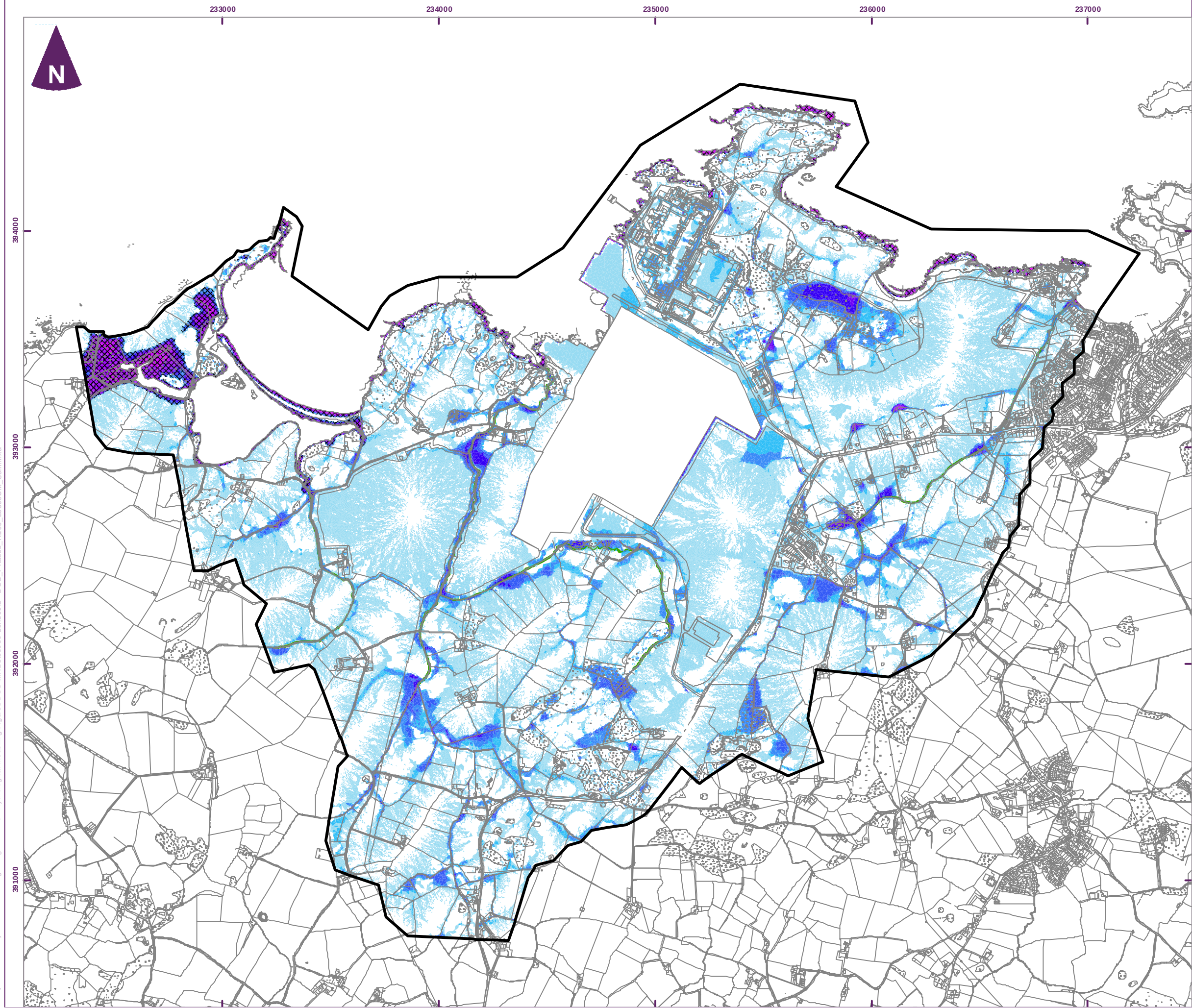
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Figure 68
DCO Reference Point 5 peak pluvial depth 1:100 year AEP 60 min duration climate change 2080s - reasonably foreseeable





Key

- Peak flood depth (m)
Reference Point 5
1 : 100 year AEP pluvial
30 min duration
Climate change 2080s -
credible maximum
- 0.01 - 0.05
 - 0.05 - 0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 0.75
 - 0.75 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00
- Model boundary
- MHS Extent 2080s
- Model river centreline

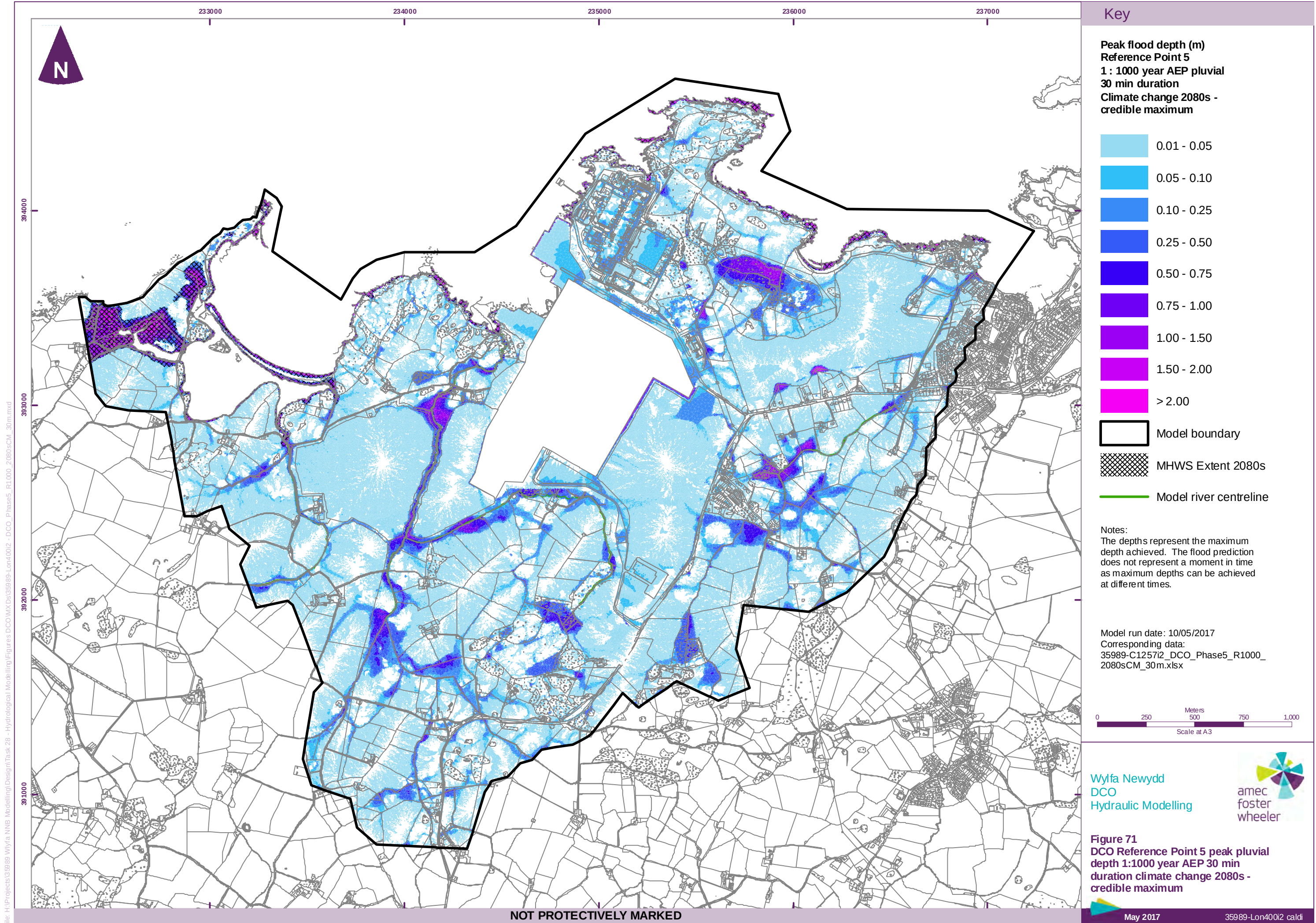
Notes:
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as maximum depths can be achieved
at different times.

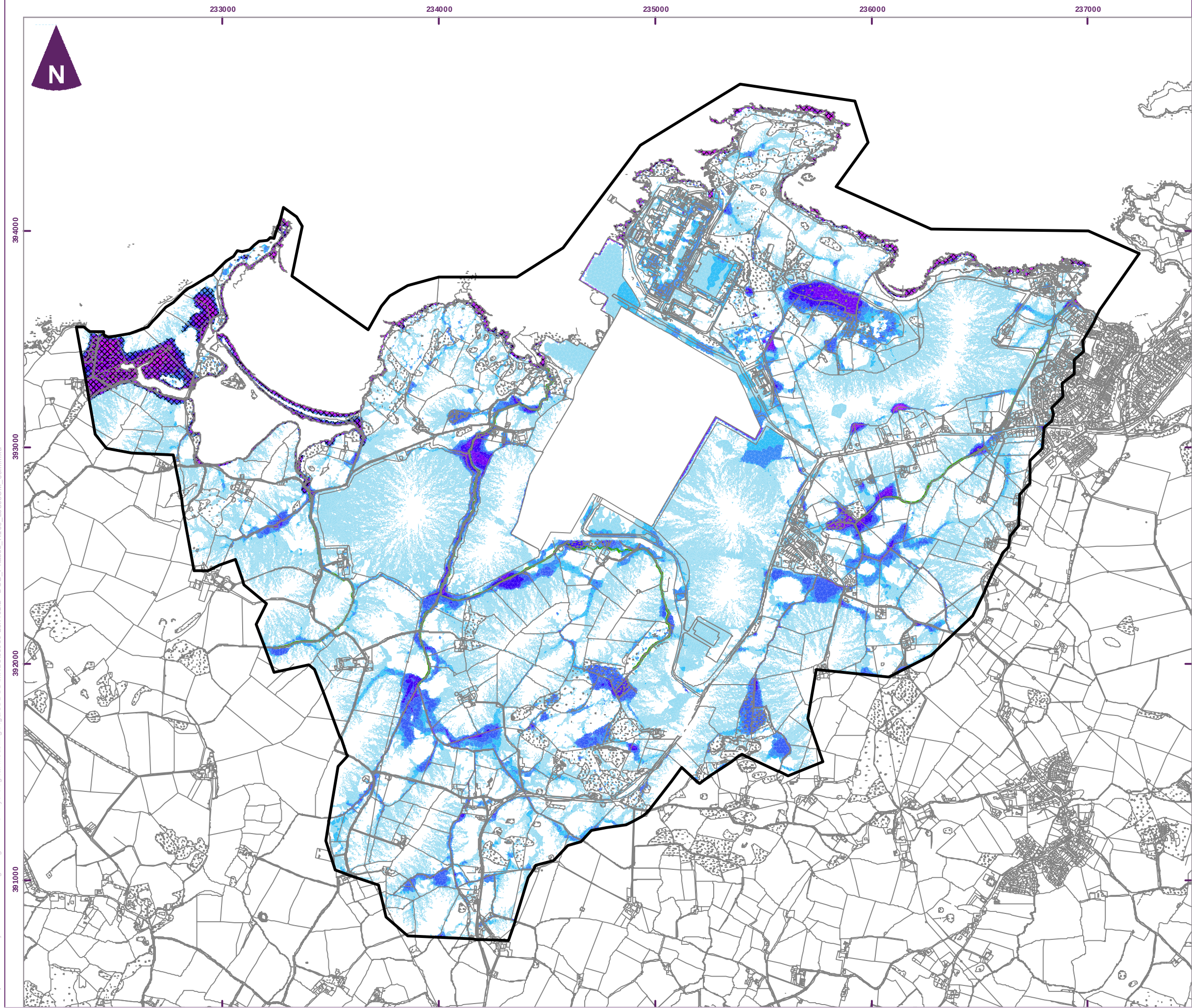
Model run date: 10/05/2017
Corresponding data:
35989-C1256i2_DCO_Phase5_R100_
2080sCM_30m.xlsx



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Figure 70
DCO Reference Point 5 peak pluvial
depth 1:100 year AEP 30 min
duration climate change 2080s -
credible maximum





Key

- Peak flood depth (m)
Reference Point 5
1 : 100 year AEP pluvial
60 min duration
Climate change 2080s -
credible maximum
- 0.01 - 0.05
 - 0.05 - 0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 0.75
 - 0.75 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00
- Model boundary
- MHS Extent 2080s
- Model river centreline

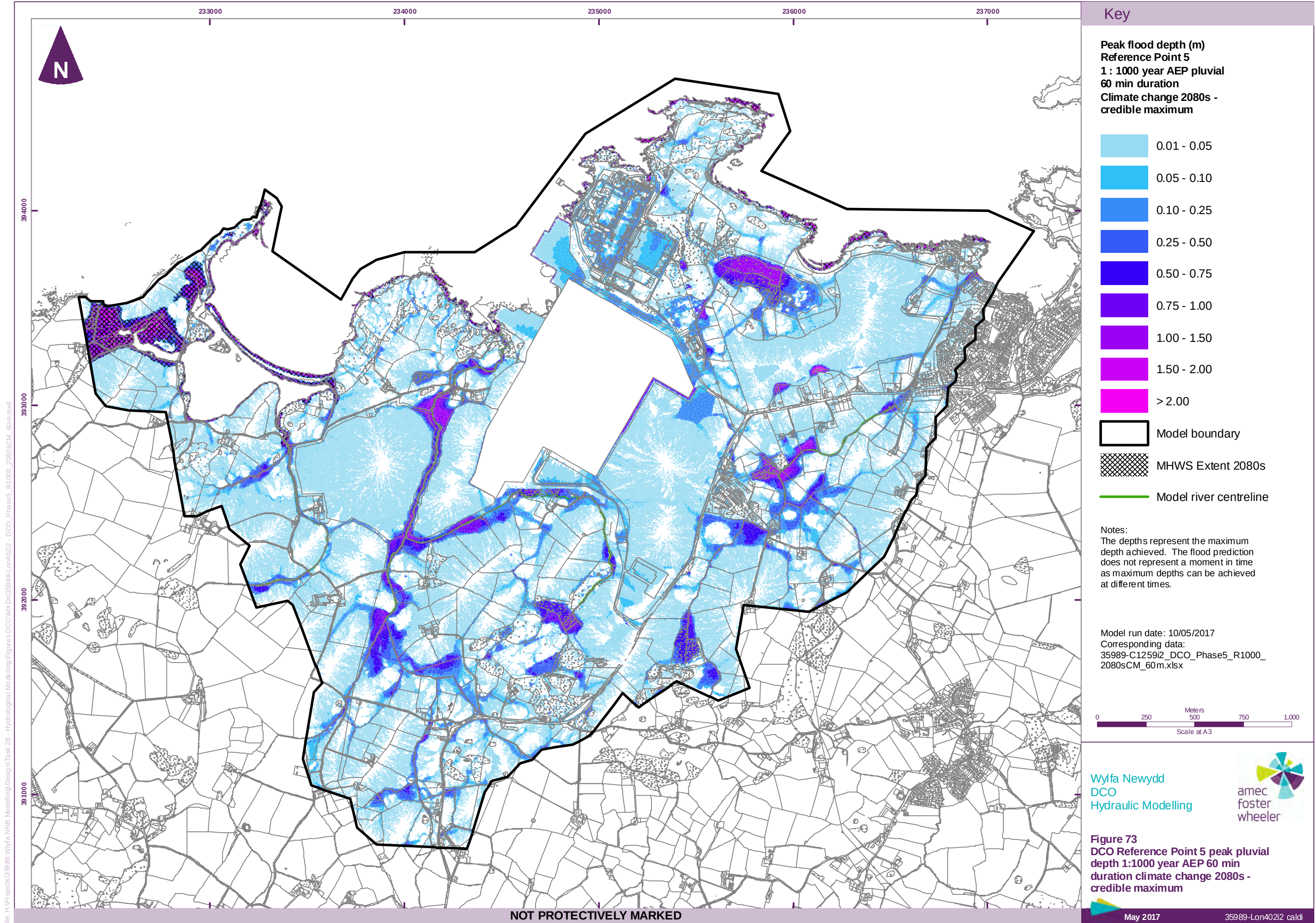
Notes:
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at different times.

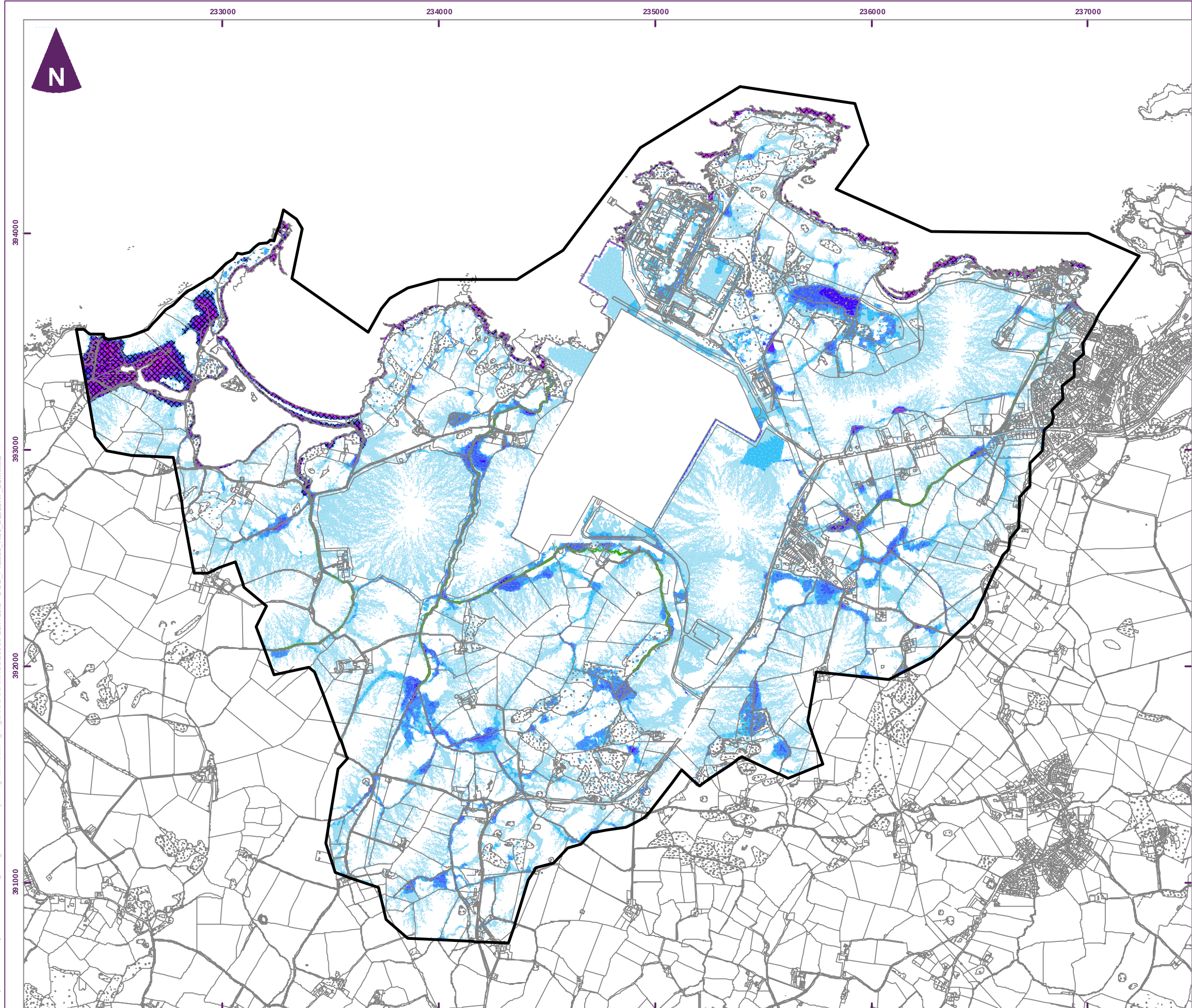
Model run date: 10/05/2017
Corresponding data:
35989-C1258i2_DCO_Phase5_R100_
2080sCM_60m.xlsx



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Figure 72
DCO Reference Point 5 peak pluvial
depth 1:100 year AEP 60 min
duration climate change 2080s -
credible maximum





Key

Peak flood depth (m)
Reference Point 5
1 : 30 year AEP pluvial
30 min duration
Climate change 2180s -
reasonably foreseeable

- 0.01 - 0.05
- 0.05 - 0.10
- 0.10 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00
- Model boundary
- MHS Extent 2180s
- Model river centreline

Notes:
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does not represent a moment in time
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at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1267i2_DCO_Phase5_R30_
2180sRF_30m.xlsx

0 250 500 750 1,000
Meters
Scale at A3

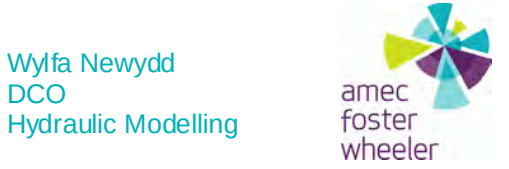
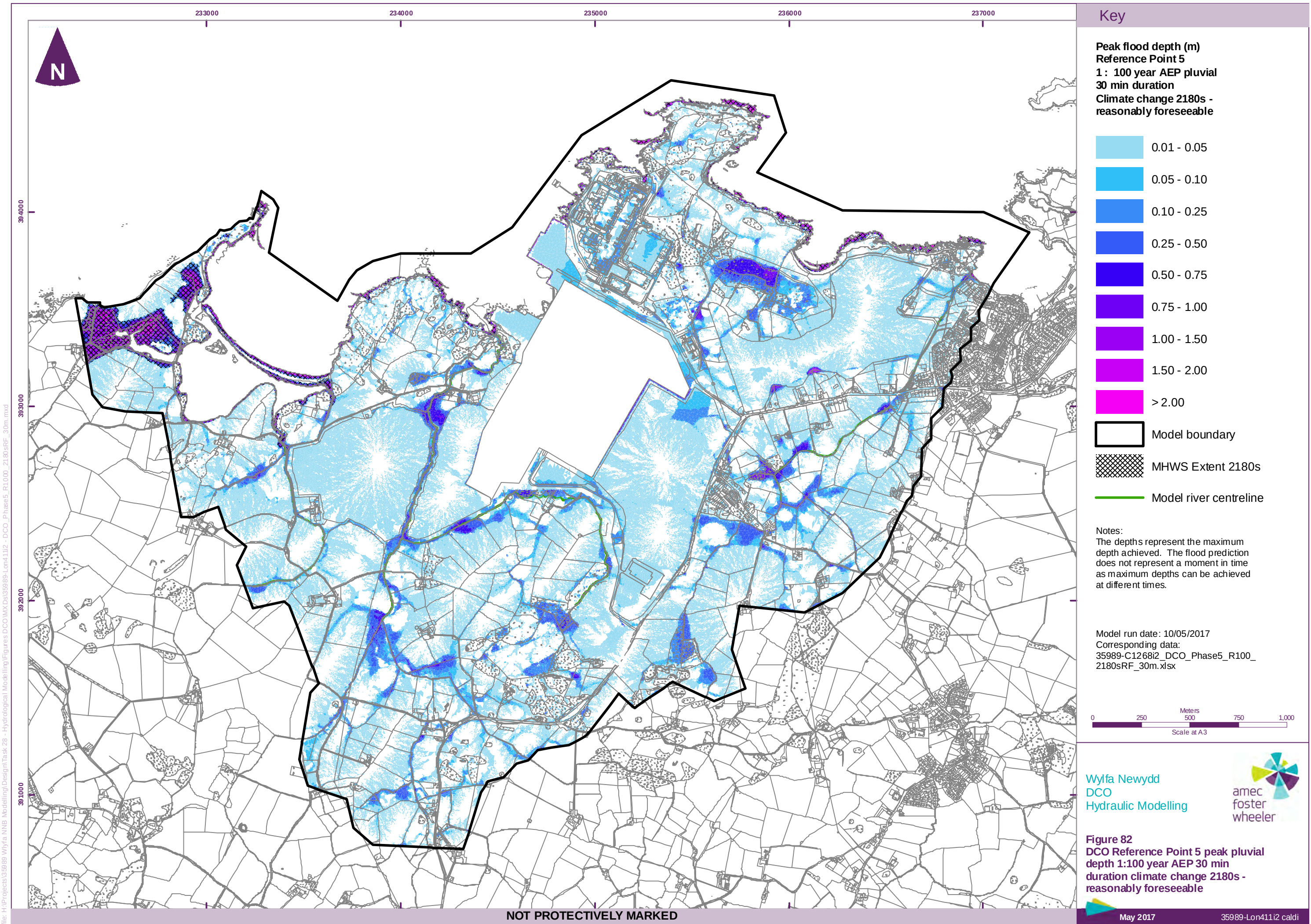
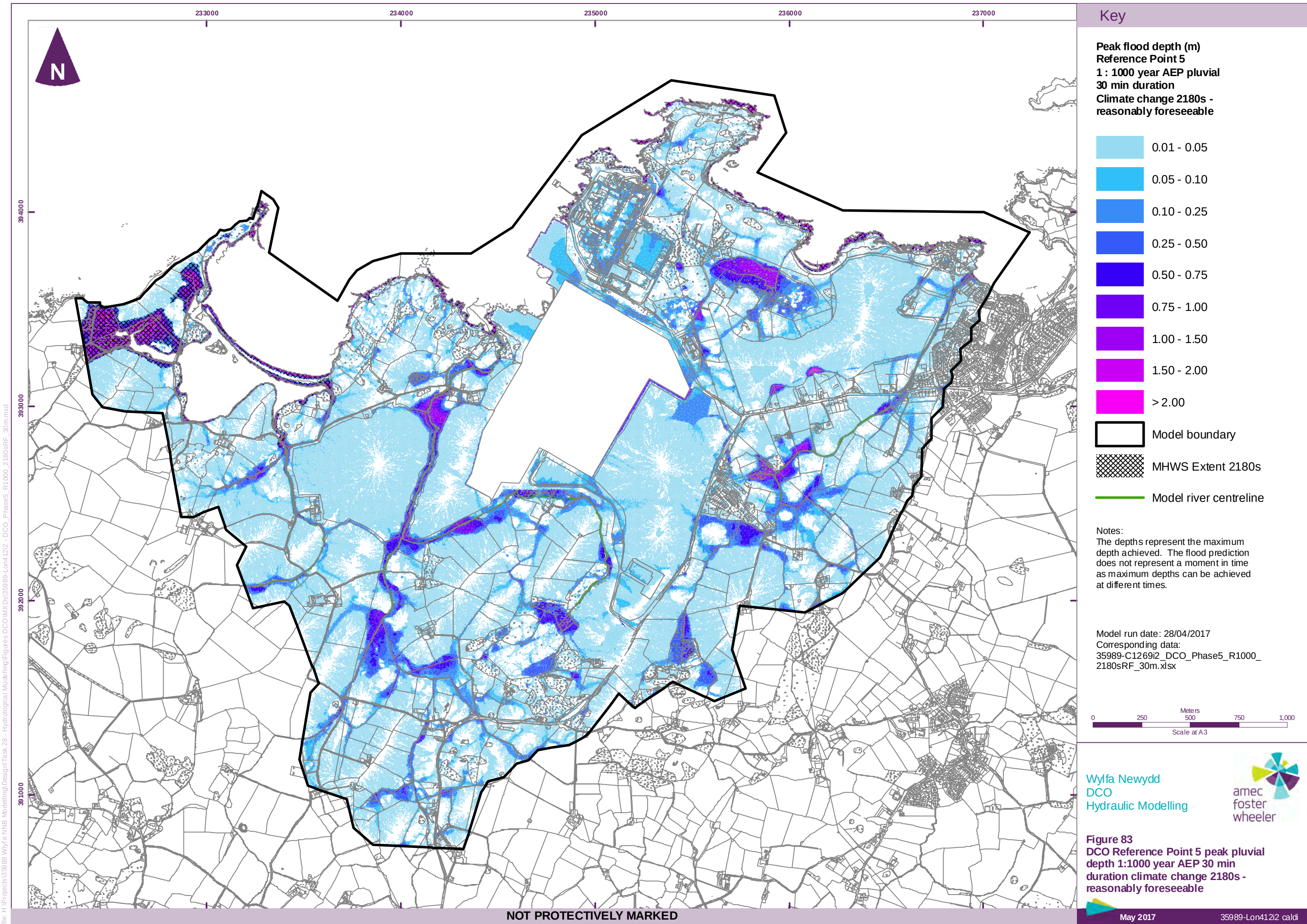
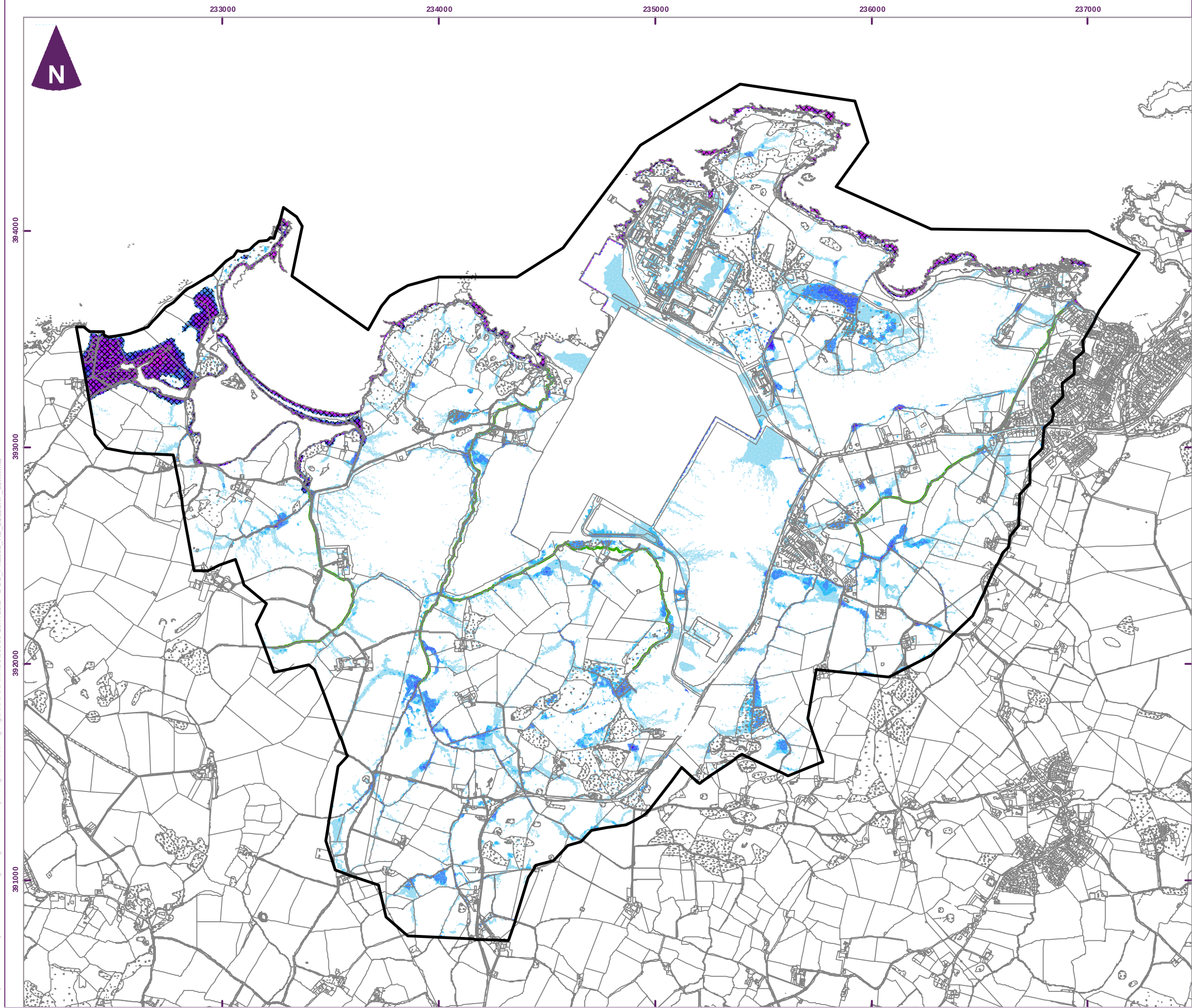


Figure 81
DCO Reference Point 5 peak pluvial
depth 1:30 year AEP 30 min duration
climate change 2180s - reasonably
foreseeable







Key

- Peak flood depth (m)
Reference Point 5
1 : 2 year AEP pluvial
60 min duration
Climate change 2180s -
reasonably foreseeable
- 0.01 - 0.05
 - 0.05 - 0.10
 - 0.10 - 0.25
 - 0.25 - 0.50
 - 0.50 - 0.75
 - 0.75 - 1.00
 - 1.00 - 1.50
 - 1.50 - 2.00
 - > 2.00
- Model boundary
- MHS Extent 2180s
- Model river centreline

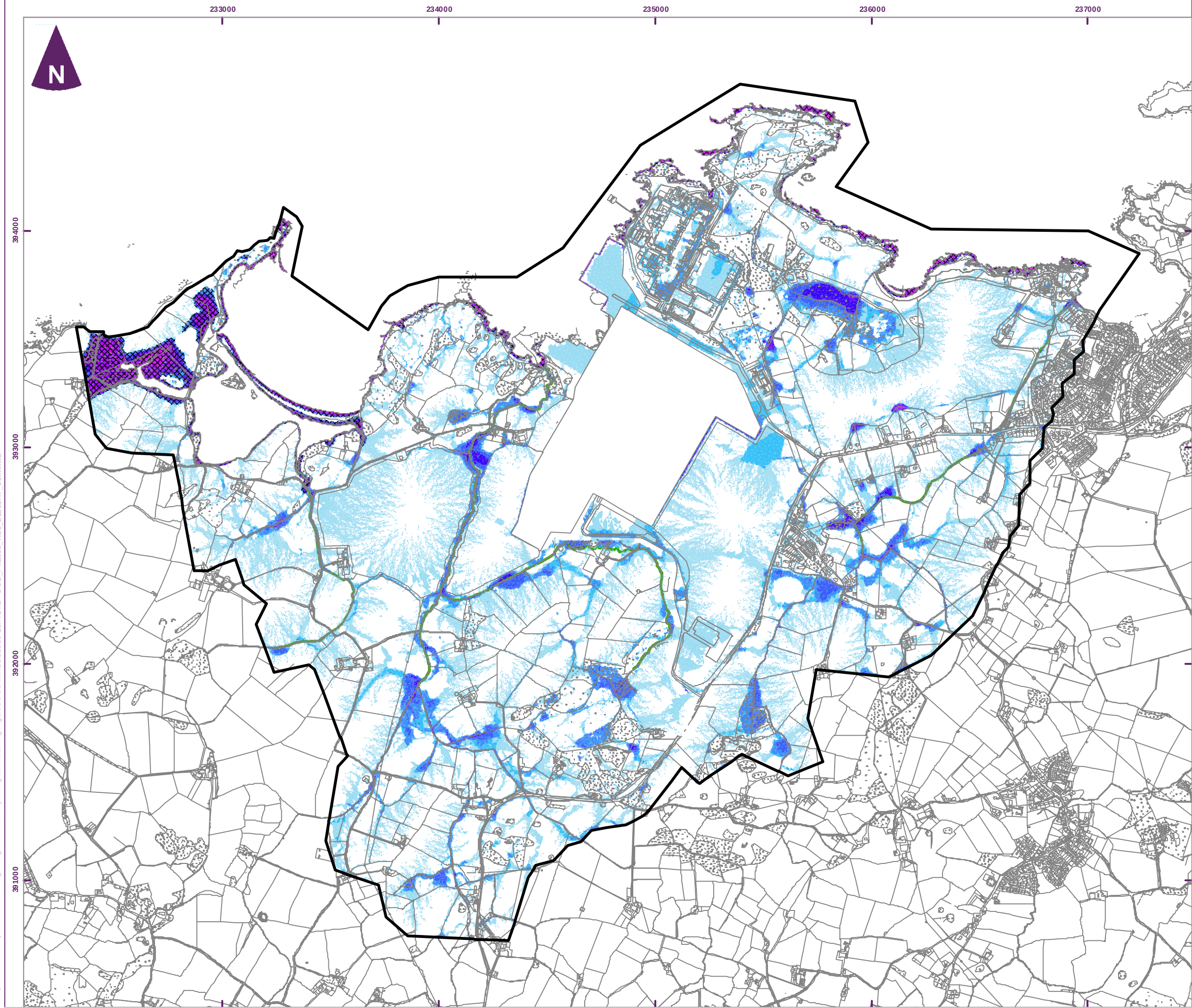
Notes:
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Model run date: 10/05/2017
Corresponding data:
35989-C1270i2_DCO_Phase5_R2_
2180sRF_60m.xlsx



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Figure 84
DCO Reference Point 5 peak pluvial
depth 1:2 year AEP 60 min duration
climate change 2180s - reasonably
foreseeable



Key

Peak flood depth (m)
Reference Point 5
1 : 30 year AEP pluvial
60 min duration
Climate change 2180s -
reasonably foreseeable

- 0.01 - 0.05
- 0.05 - 0.10
- 0.10 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00
- Model boundary
- MHS Extent 2180s
- Model river centreline

Notes:
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depth achieved. The flood prediction
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as maximum depths can be achieved
at different times.

Model run date: 10/05/2017
Corresponding data:
35989-C1271i2_DCO_Phase5_R30_
2180sRF_60m.xlsx

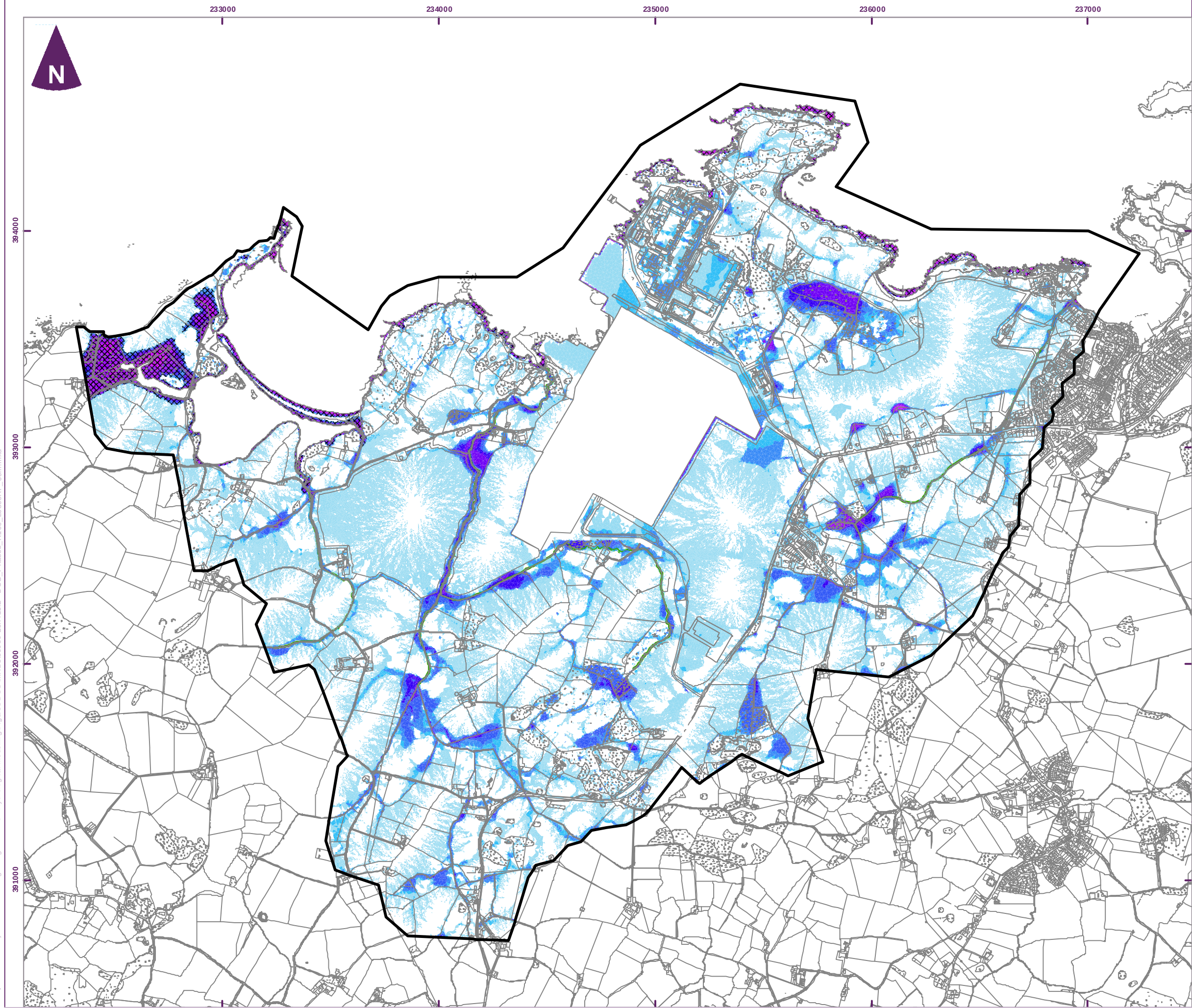
0 250 500 750 1,000
Meters
Scale at A3

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amec
foster
wheeler

Figure 85
DCO Reference Point 5 peak pluvial
depth 1:30 year AEP 60 min
duration climate change 2180s -
reasonably foreseeable

NOT PROTECTIVELY MARKED



Key

Peak flood depth (m)

Reference Point 5

1 : 100 year AEP pluvial

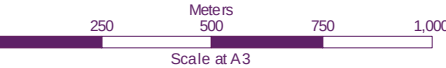
60 min duration

Climate change 2180s - reasonably foreseeable

	0.01 - 0.05
	0.05 - 0.10
	0.10 - 0.25
	0.25 - 0.50
	0.50 - 0.75
	0.75 - 1.00
	1.00 - 1.50
	1.50 - 2.00
	> 2.00
	Model boundary
	MHS Extent 2180s
	Model river centreline

Notes:
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Corresponding data:
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Figure 86
DCO Reference Point 5 peak pluvial depth 1:100 year AEP 60 min duration climate change 2180s - reasonably foreseeable