



## Wylfa Newydd Project

6.4.32 ES Volume D - WNDA Development  
App D8-7 - Surface water and  
groundwater modelling results (Part 5/7)

PINS Reference Number: EN010007

Application Reference Number: 6.4.32

June 2018

Revision 1.0

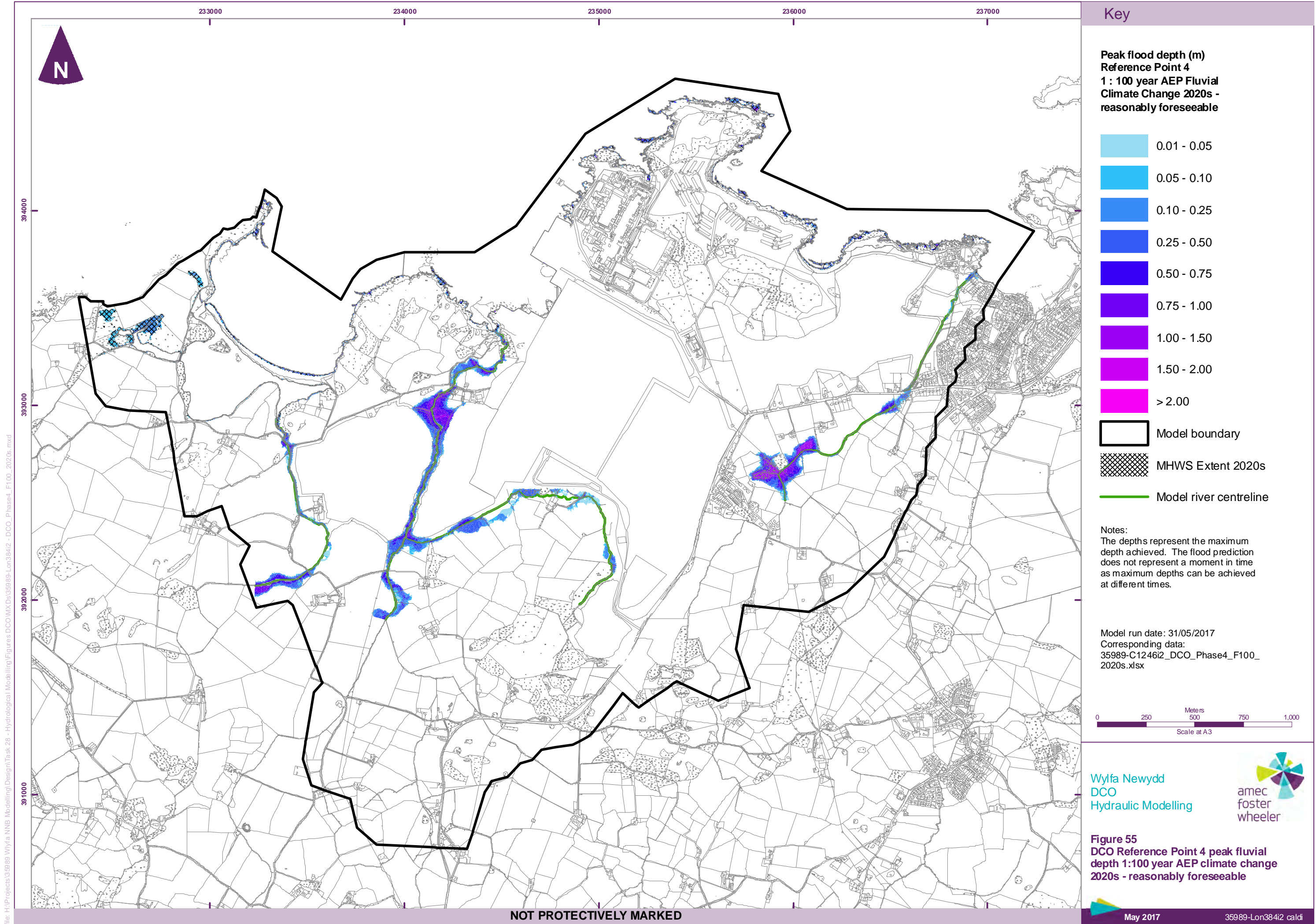
Regulation Number: 5(2)(a)

Planning Act 2008

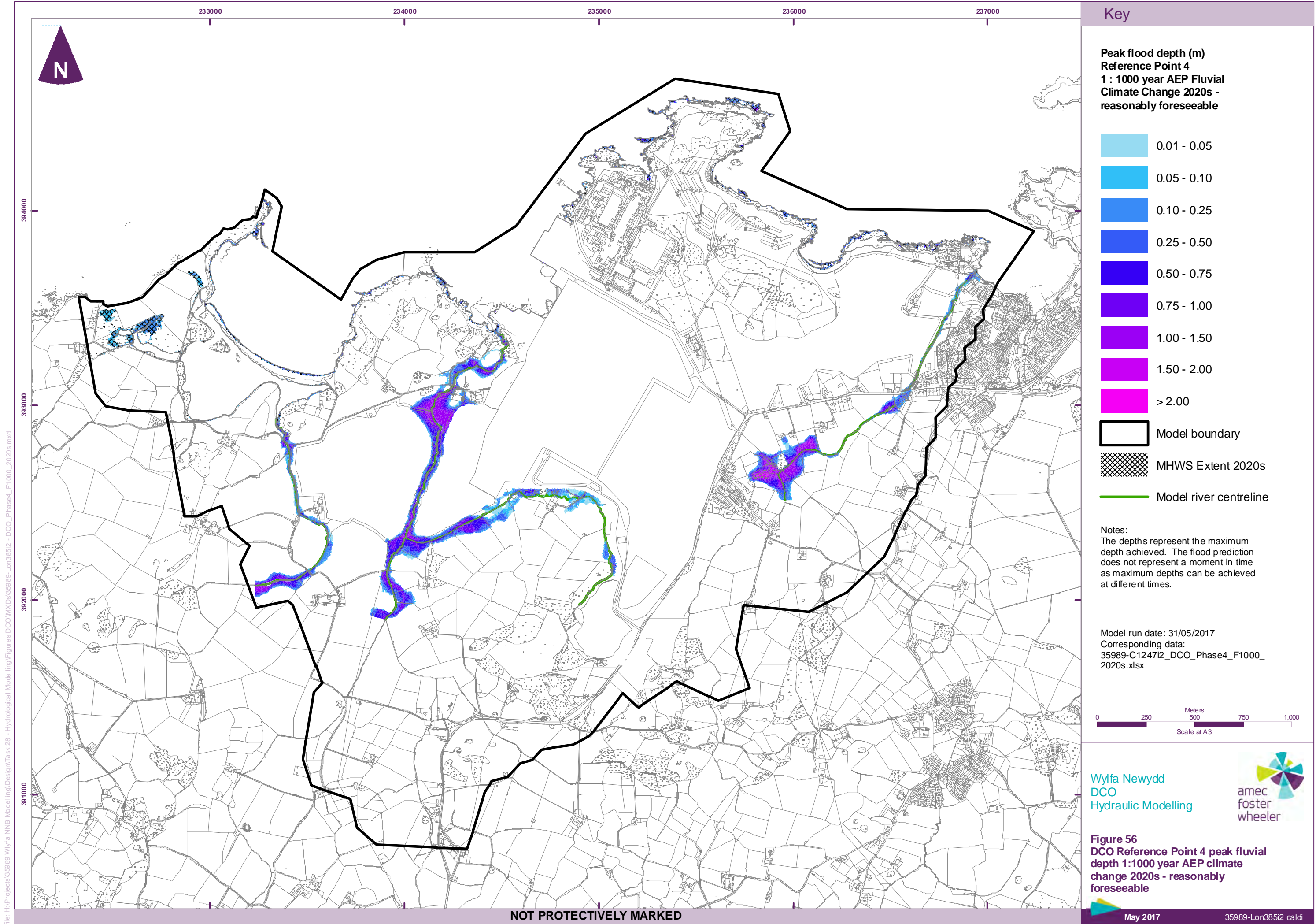
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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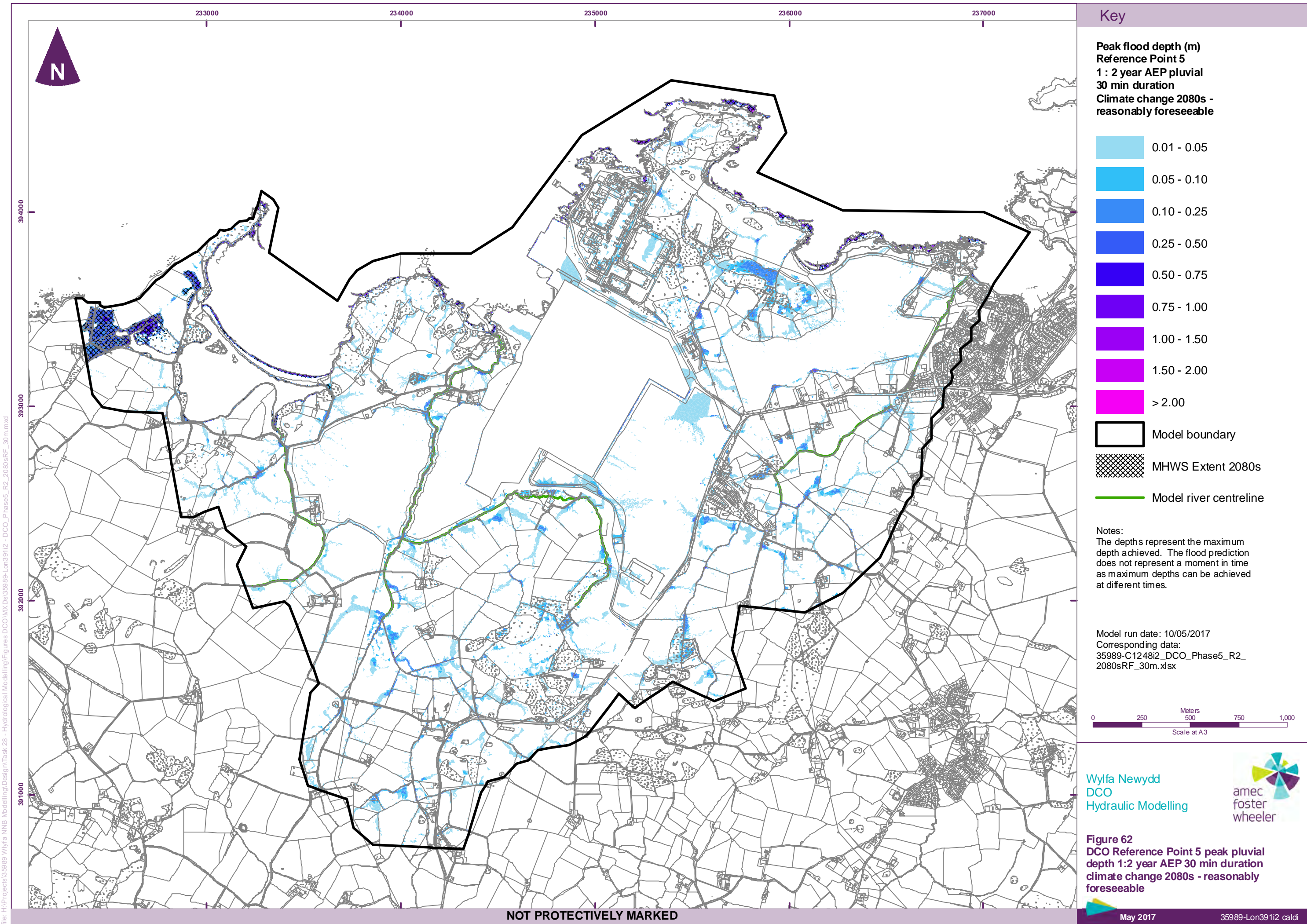




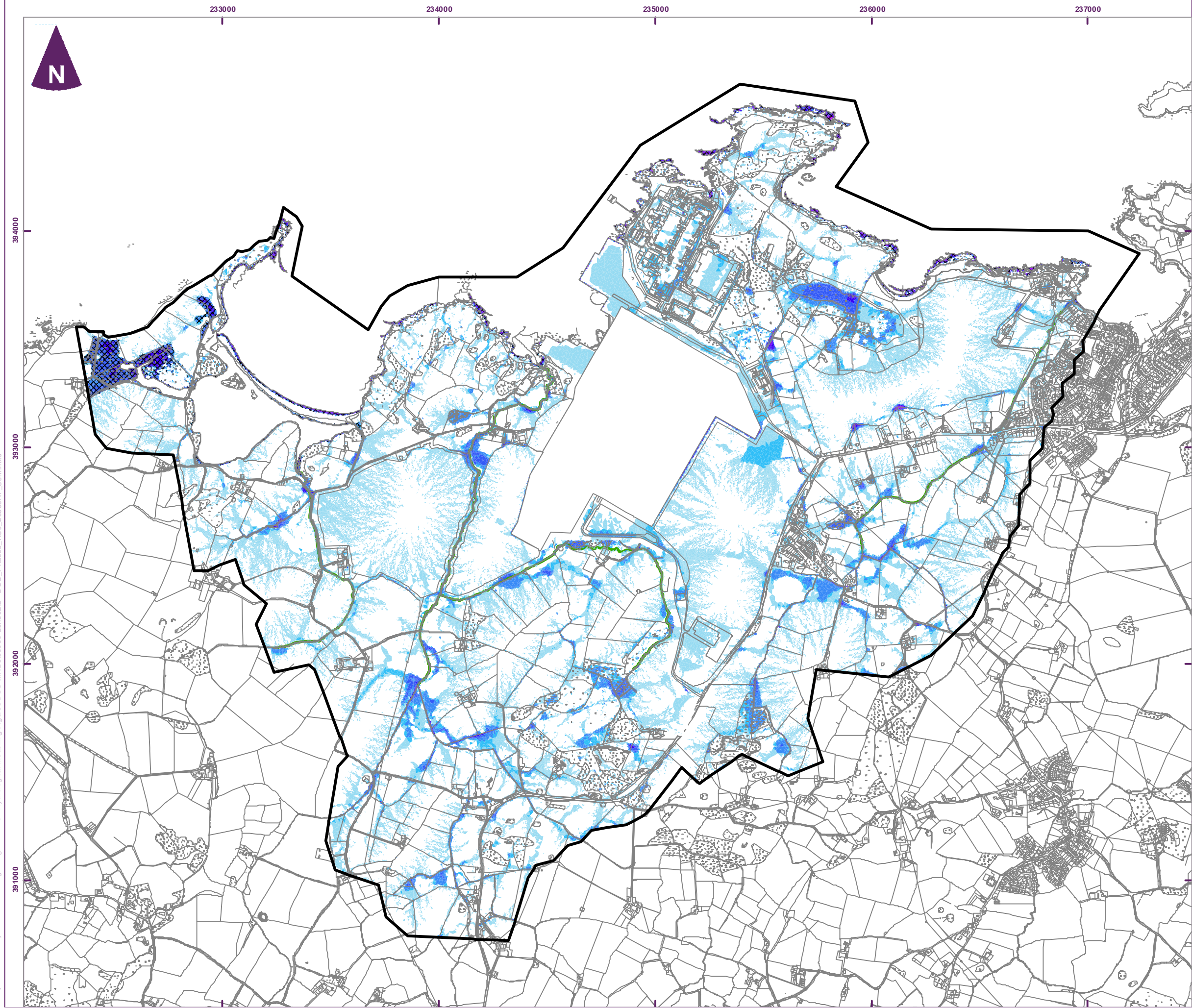












Key

Peak flood depth (m)  
Reference Point 5  
1 : 30 year AEP pluvial  
30 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-C1249I2\_DCO\_Phase5\_R30\_  
2080sRF\_30m.xlsx

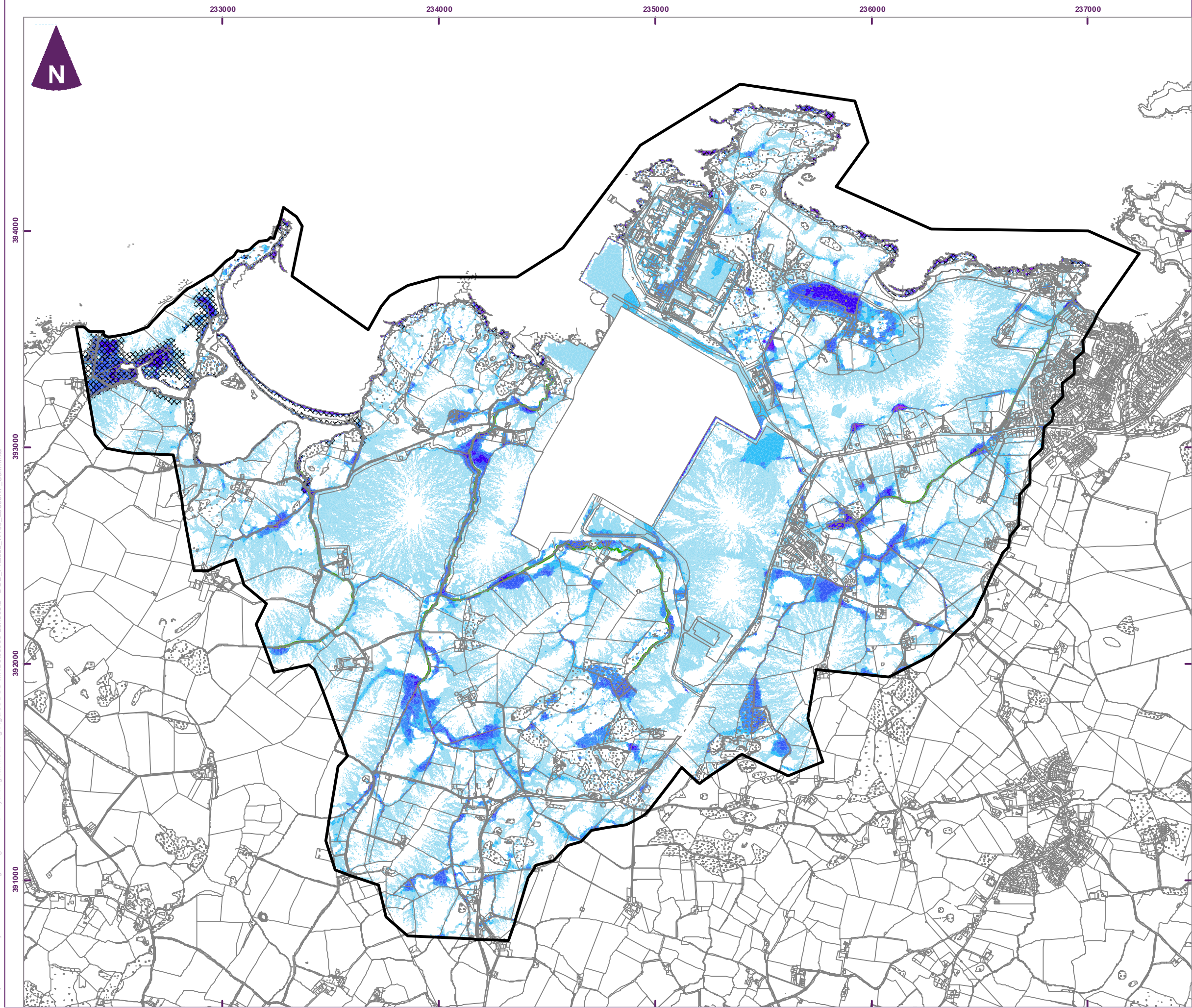
0 250 500 750 1,000  
Meters  
Scale at A3



Figure 63  
DCO Reference Point 5 peak pluvial  
depth 1:30 year AEP 30 min duration  
climate change 2080s - reasonably  
foreseeable

NOT PROTECTIVELY MARKED





Key

- Peak flood depth (m)  
Reference Point 5  
1 : 100 year AEP pluvial  
30 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.

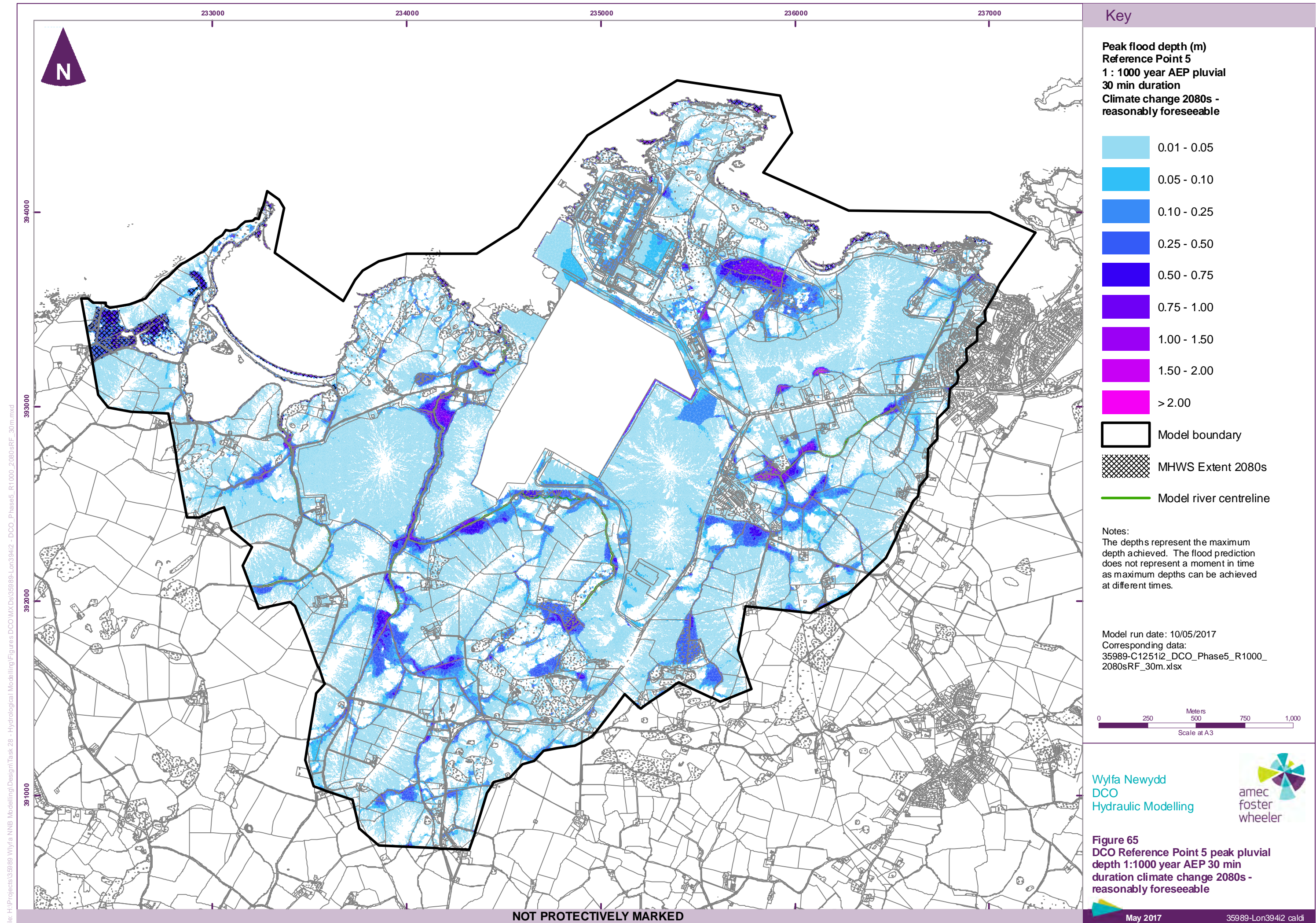
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Corresponding data:  
35989-C1250i2\_DCO\_Phase5\_R100\_  
2080sRF\_30m.xlsx



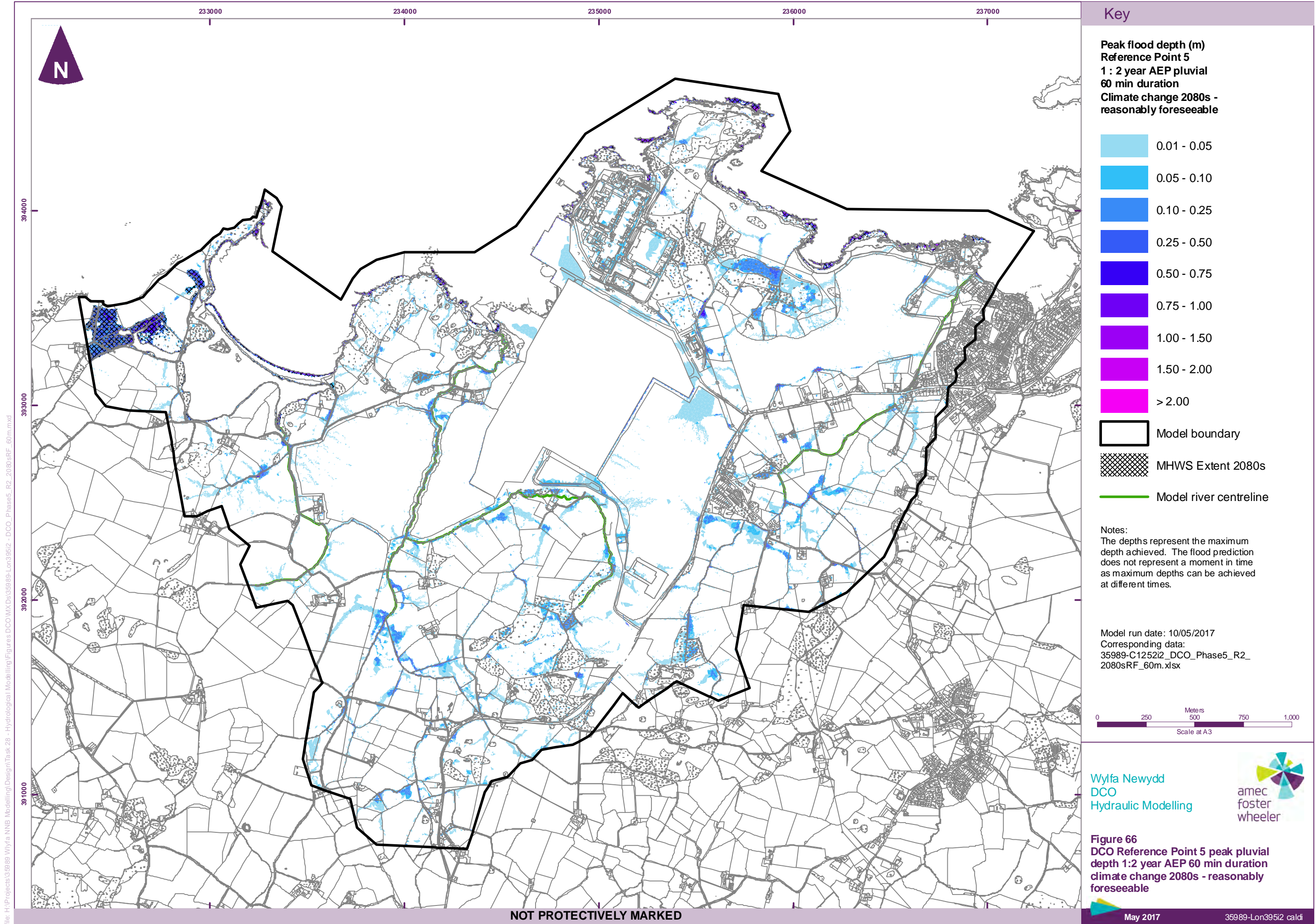
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Hydraulic Modelling

Figure 64  
DCO Reference Point 5 peak pluvial  
depth 1:100 year AEP 30 min  
duration climate change 2080s -  
reasonably foreseeable

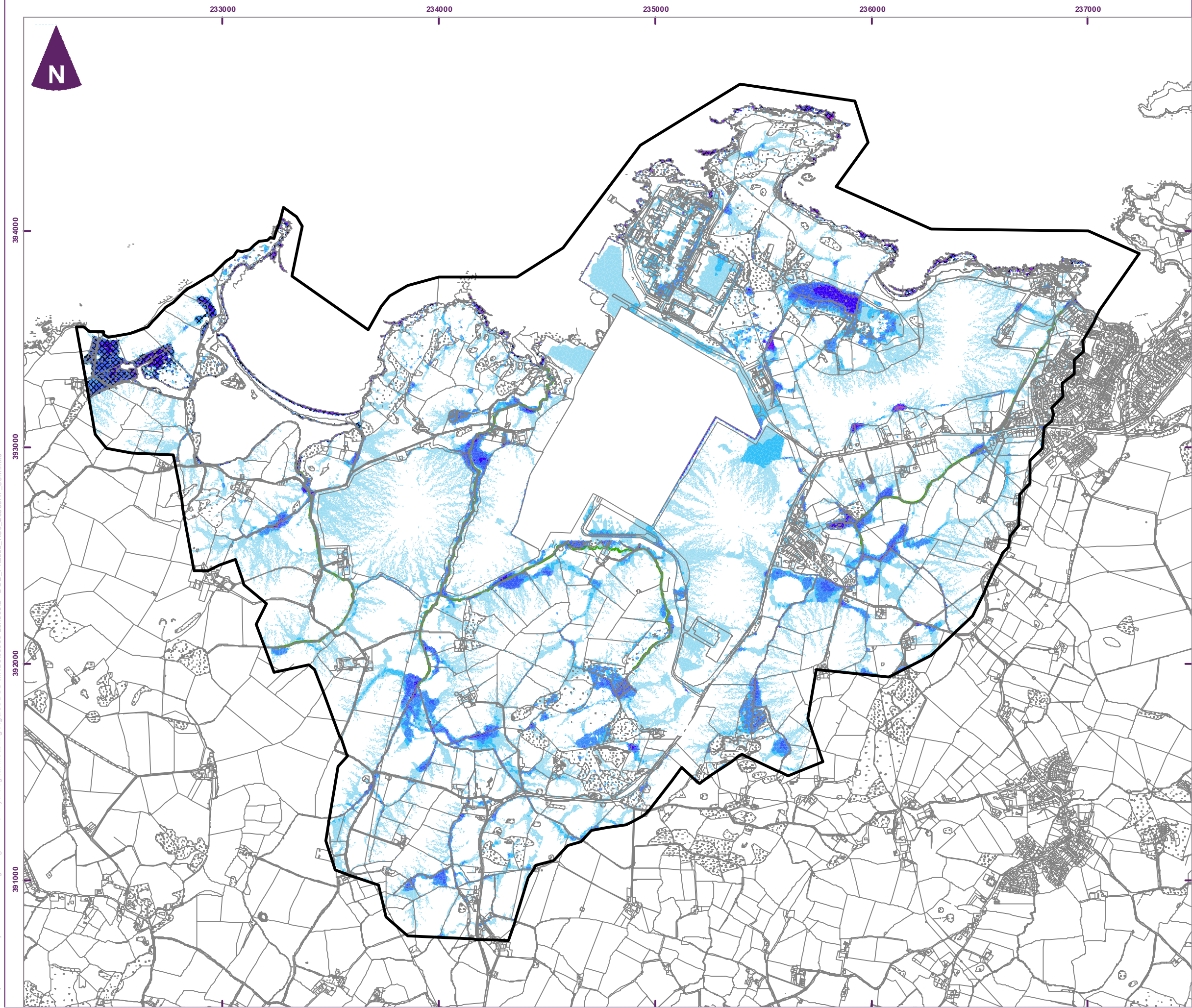












Key

- 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



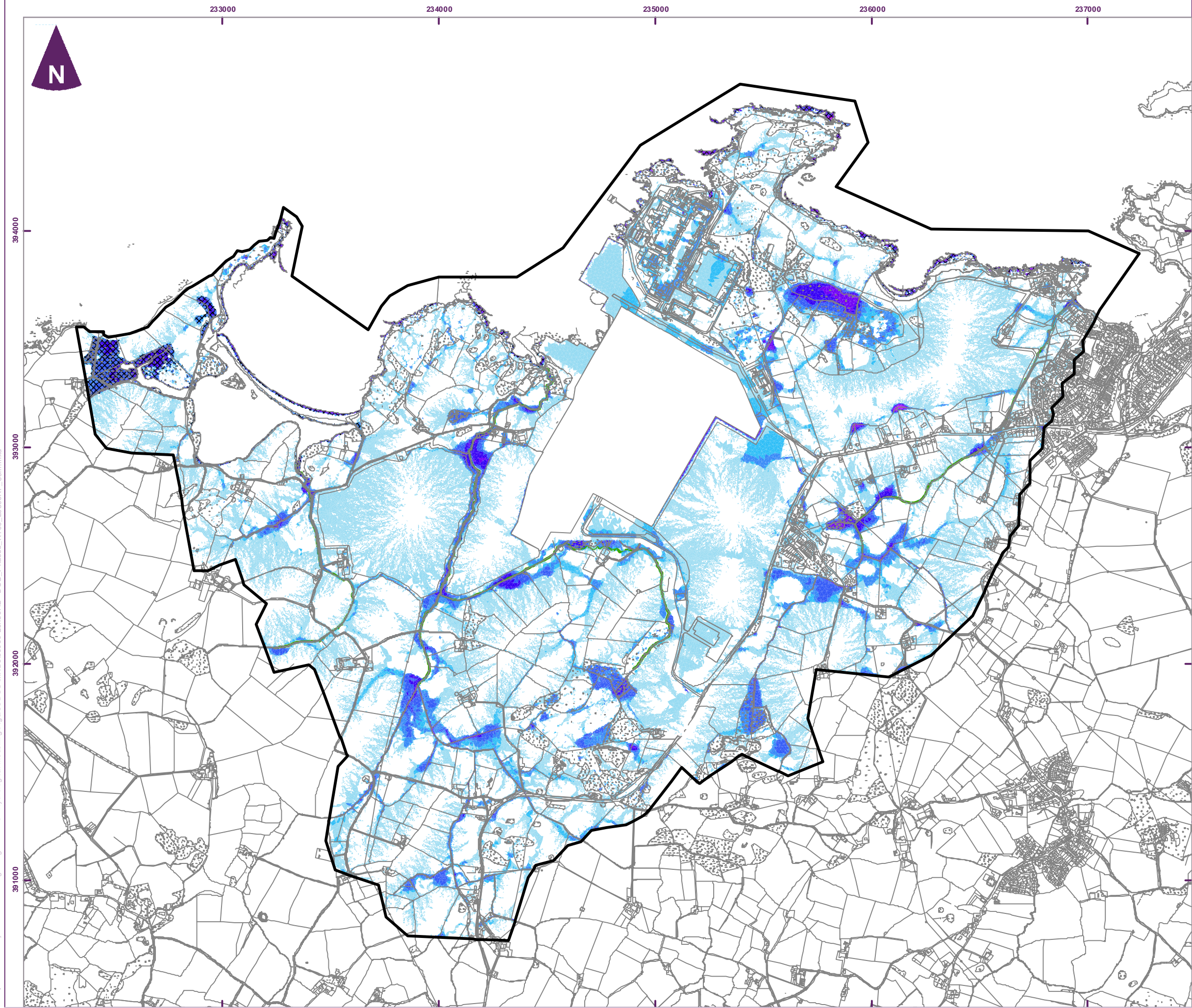
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Hydraulic Modelling

amec  
foster  
wheeler

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

NOT PROTECTIVELY MARKED





Key

Peak flood depth (m)

Reference Point 5

1 : 100 year AEP pluvial

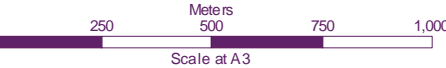
60 min duration

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
	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-C1254i2\_DCO\_Phase5\_R100\_2080sRF\_60m.xlsx



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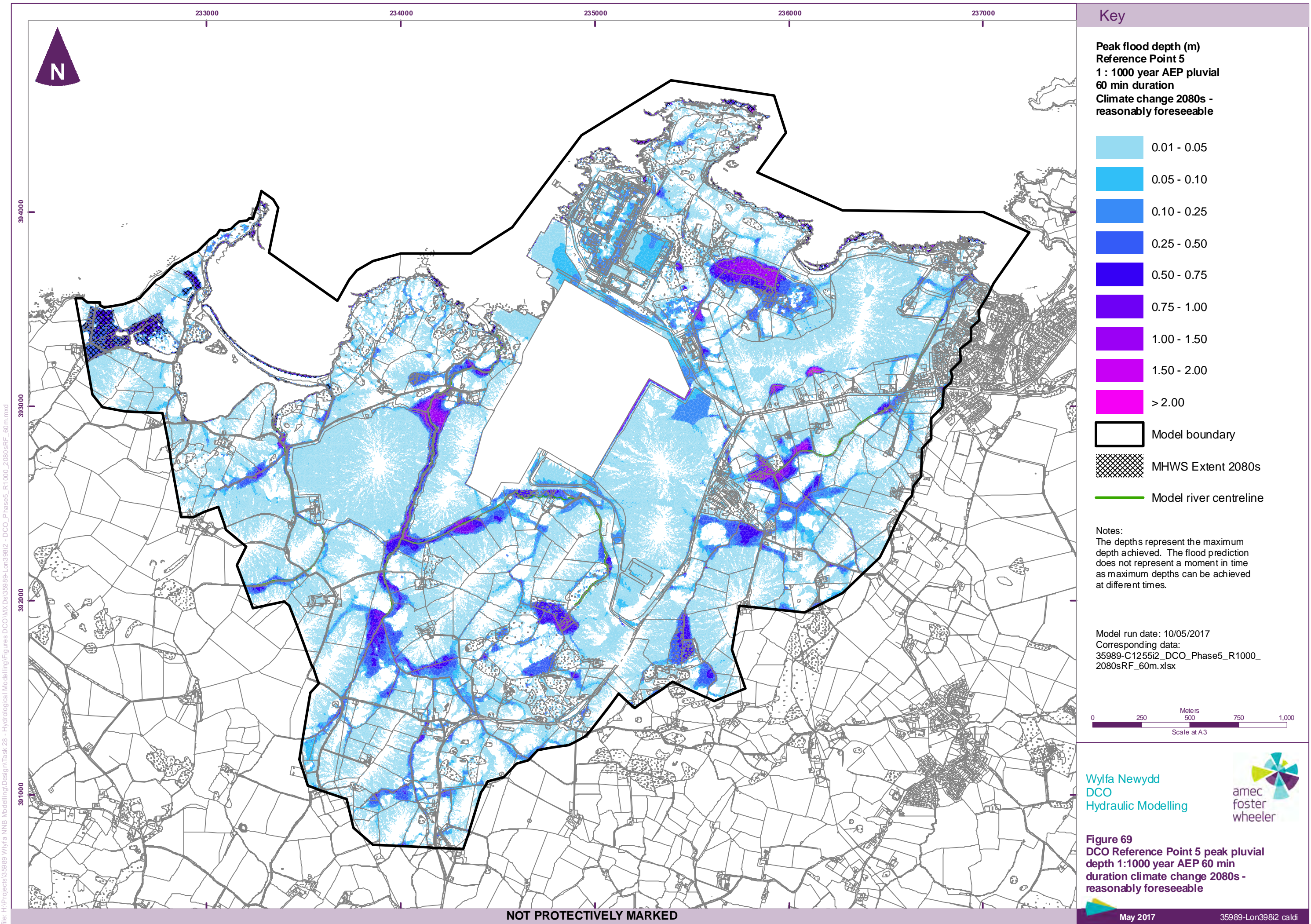
DCO

Hydraulic Modelling

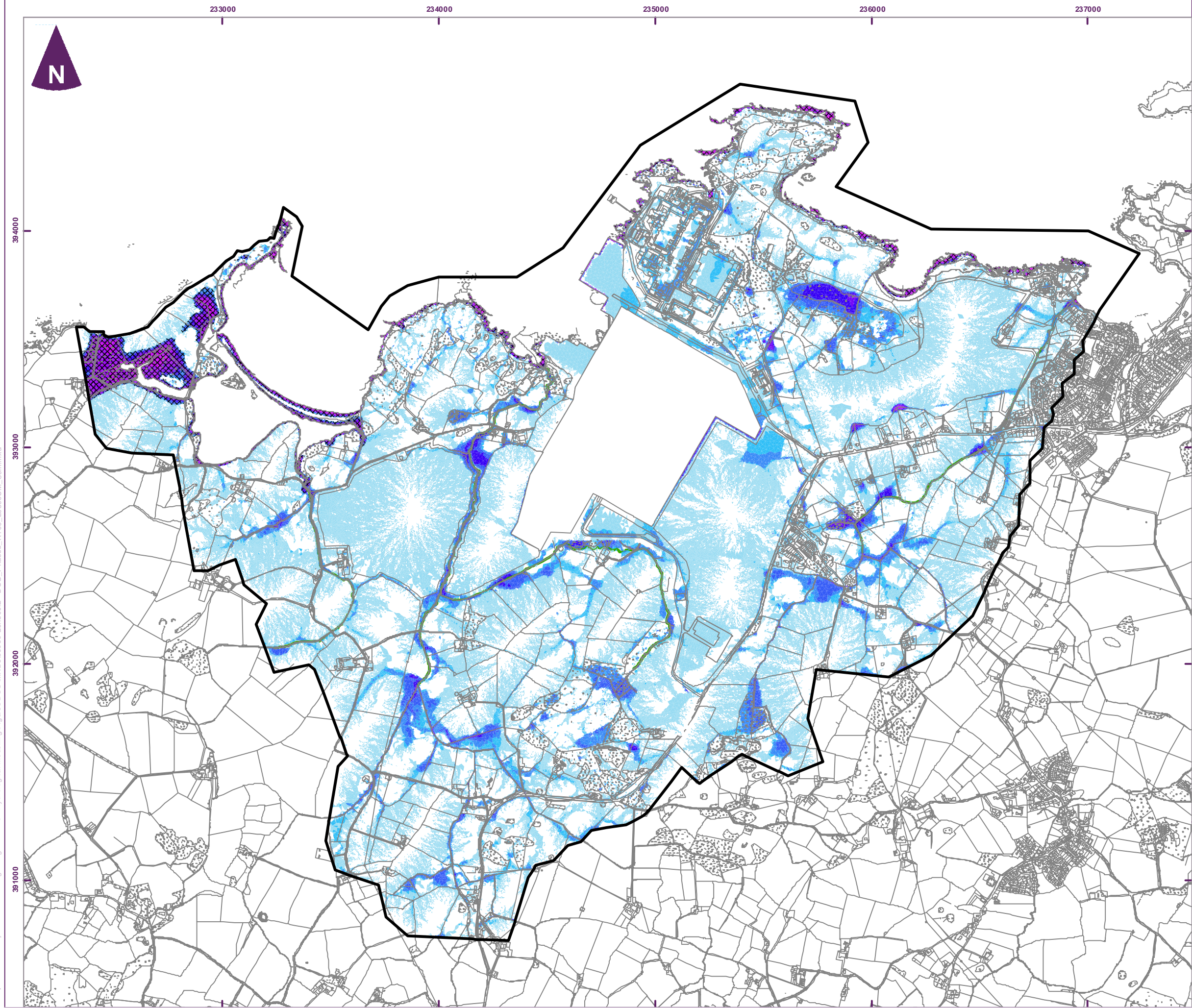
Figure 68  
DCO Reference Point 5 peak pluvial depth 1:100 year AEP 60 min duration climate change 2080s - reasonably foreseeable

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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:  
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-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

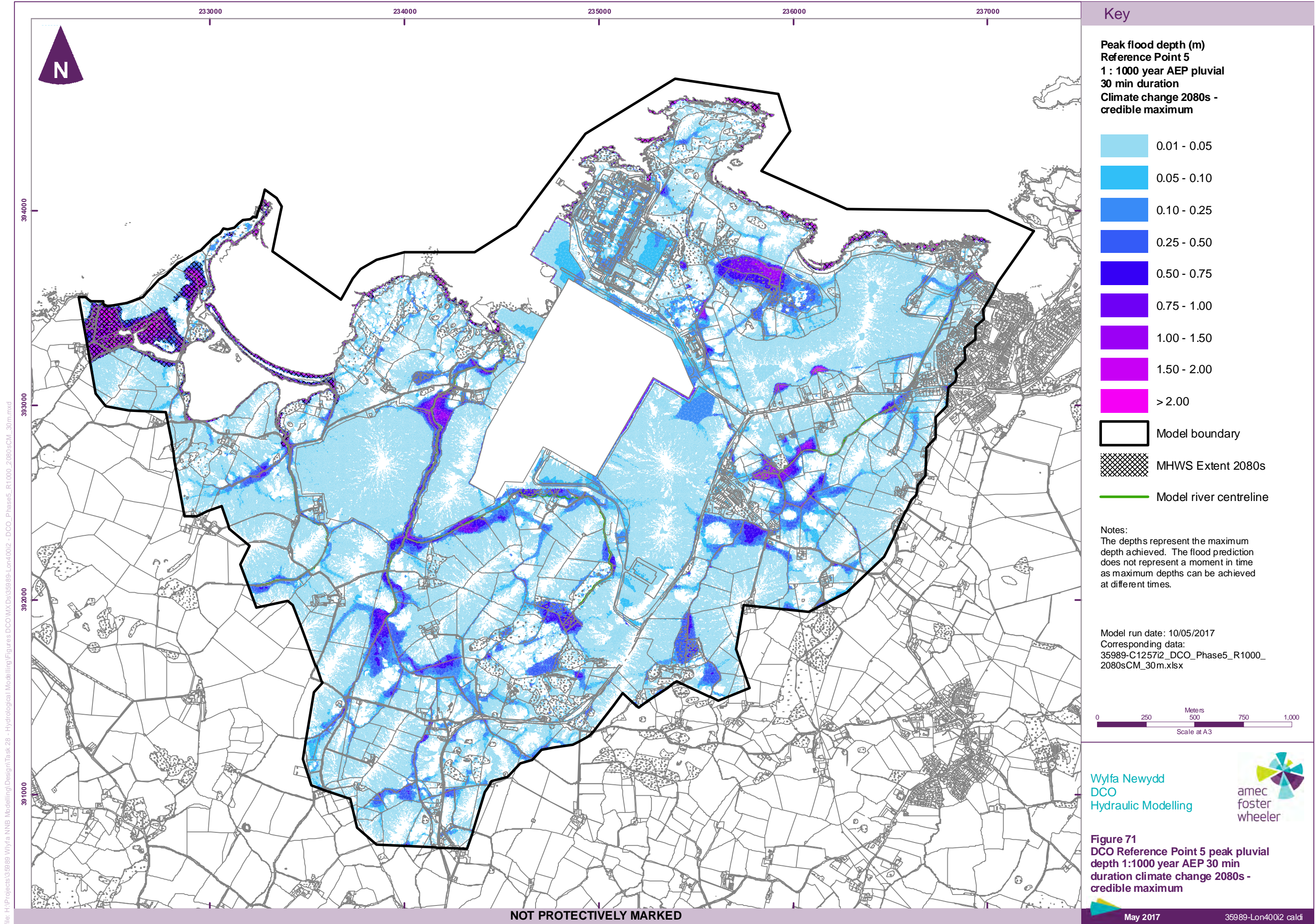
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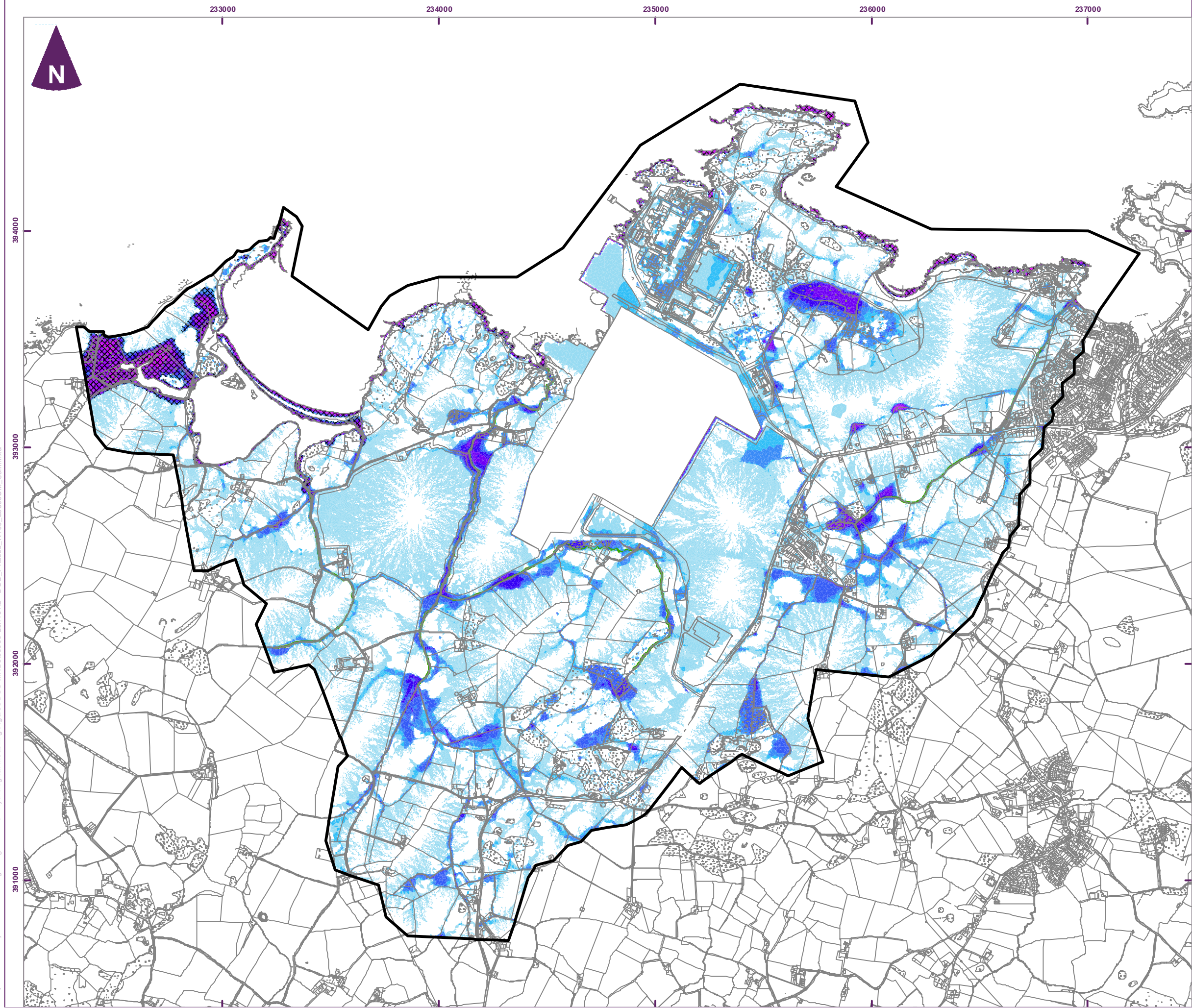
May 2017

35989-Lon399i2 caldi









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

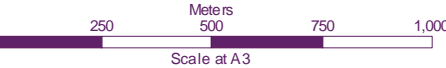
Model boundary

MHS Extent 2080s

Model river centreline

Notes:  
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-C1258i2\_DCO\_Phase5\_R100\_2080sCM\_60m.xlsx



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DCO  
Hydraulic Modelling

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

NOT PROTECTIVELY MARKED



