



Wylfa Newydd Project

6.4.32 ES Volume D - WNDA Development
App D8-7 - Surface water and
groundwater modelling results (Part 3/7)

PINS Reference Number: EN010007

Application Reference Number: 6.4.32

June 2018

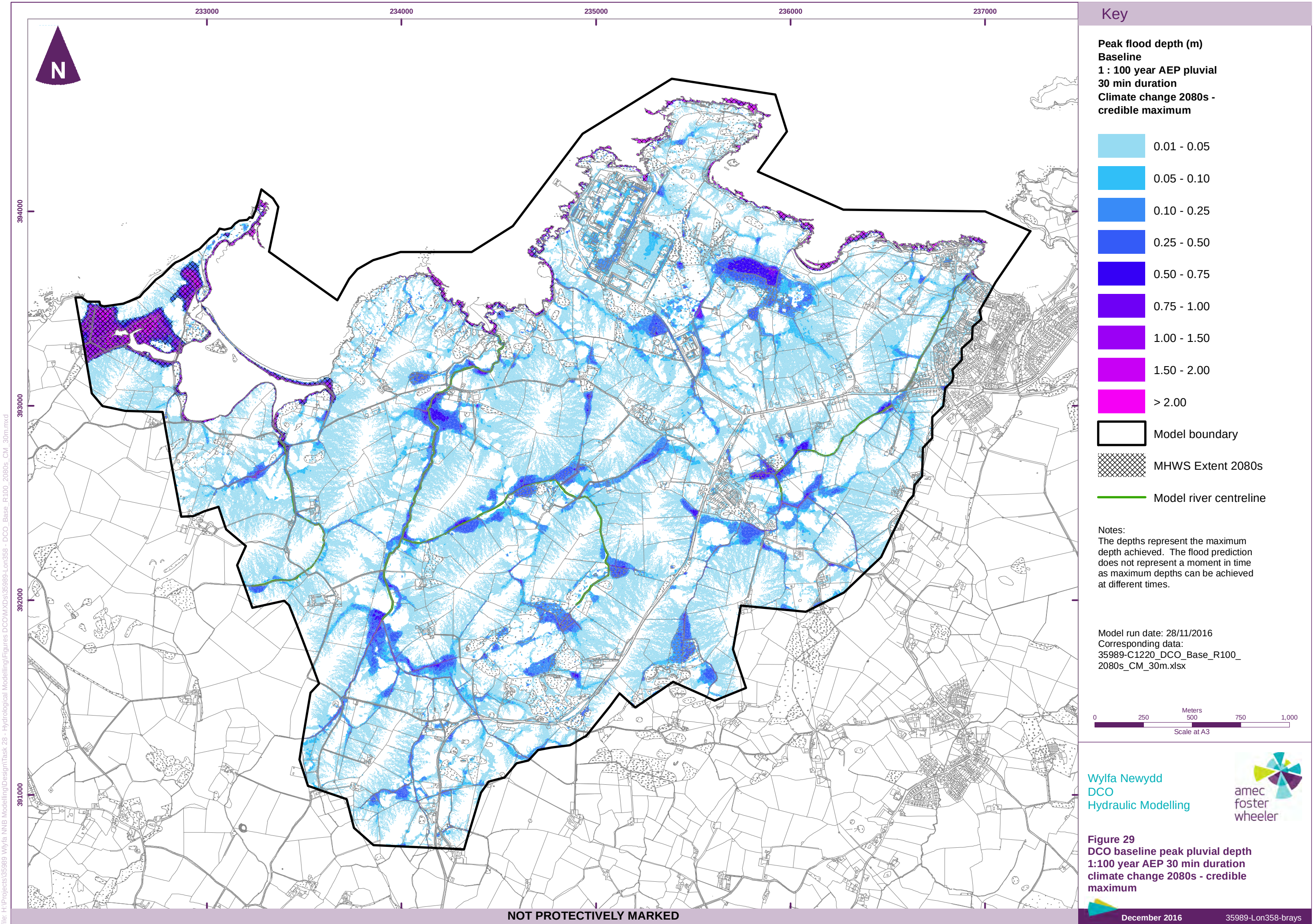
Revision 1.0

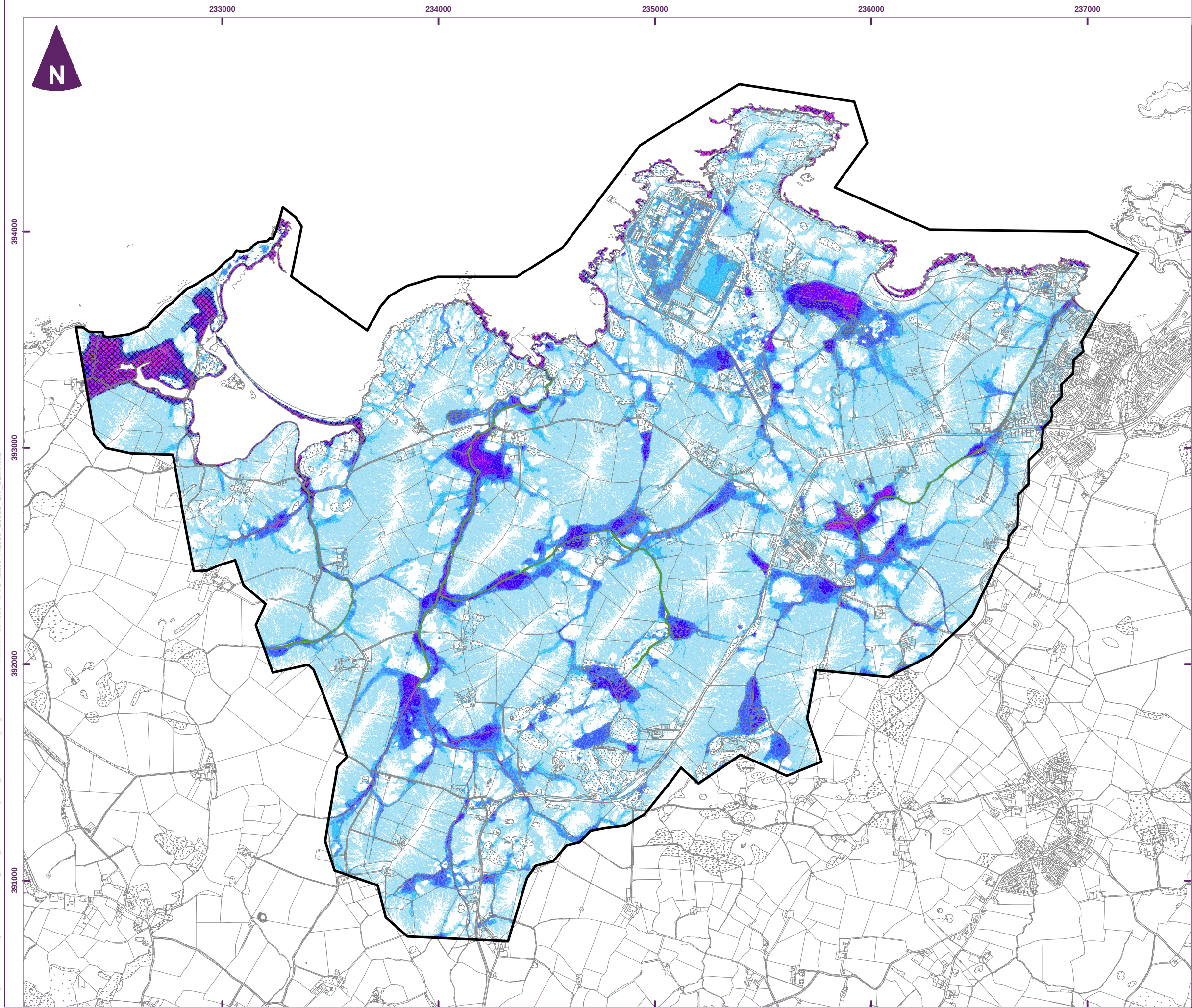
Regulation Number: 5(2)(a)

Planning Act 2008

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

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Key

- Peak flood depth (m)
- Baseline
- 1 : 1000 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.

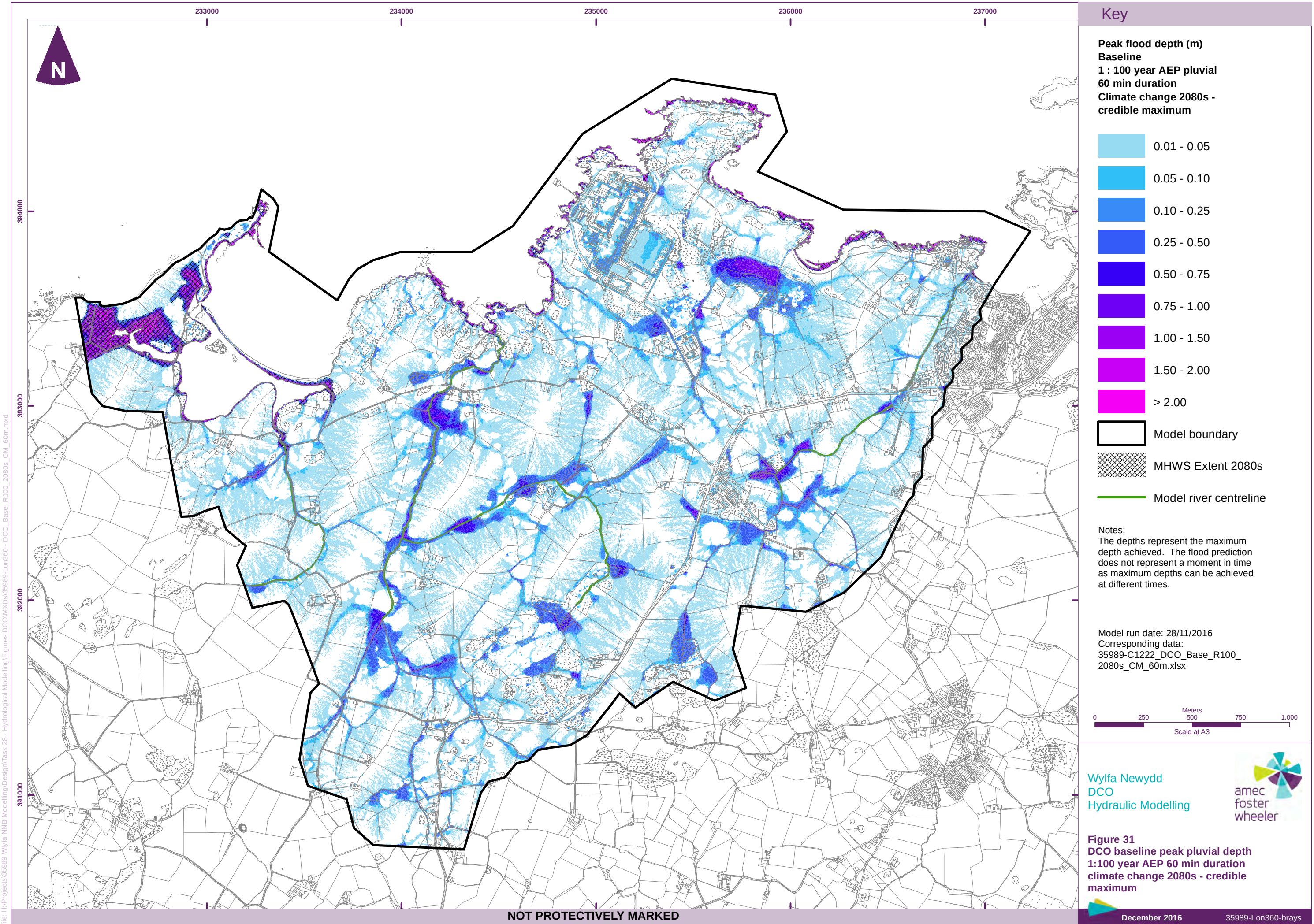
Model run date: 28/11/2016

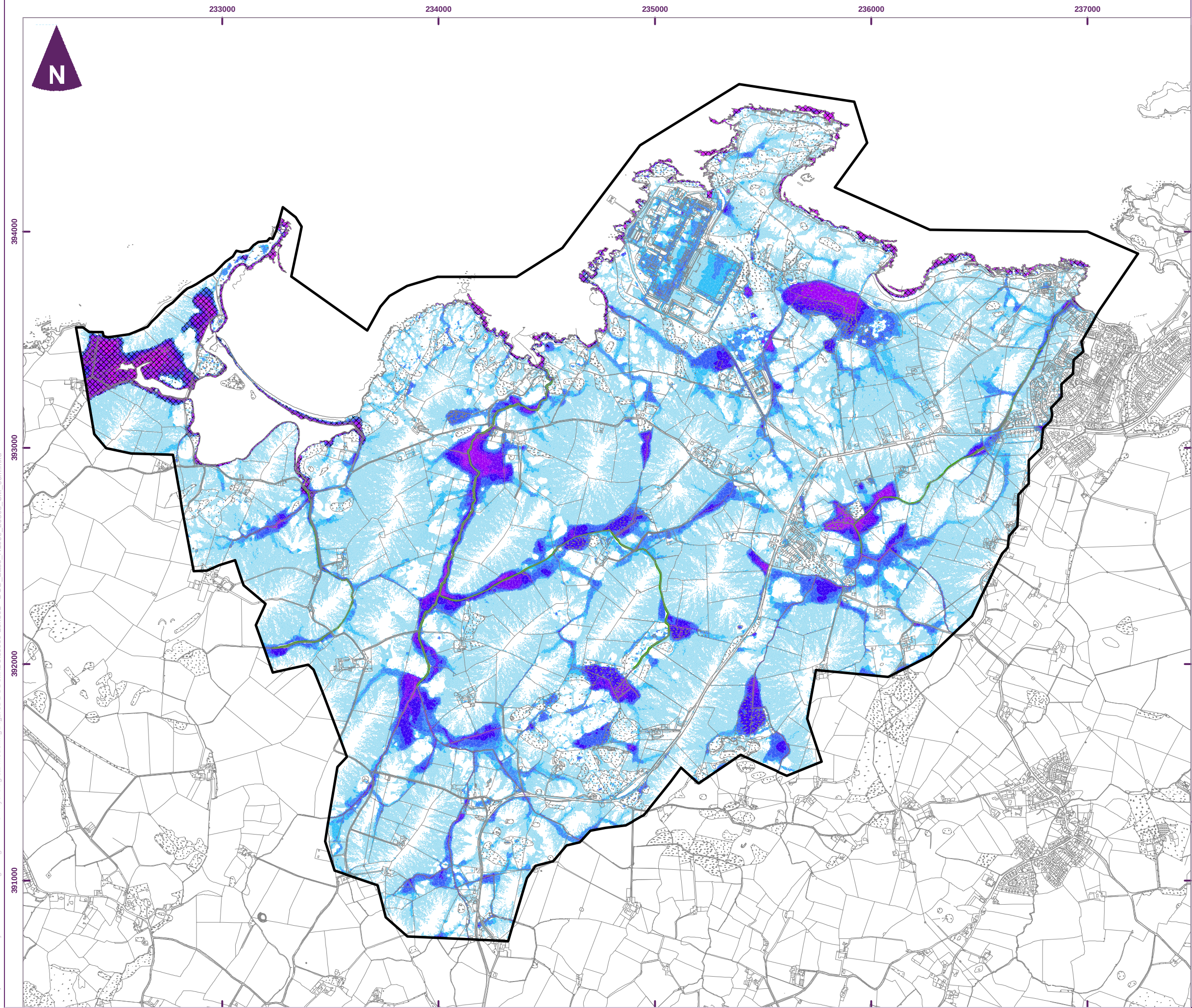
Corresponding data: 35989-C1221_DCO_Base_R1000_2080s_CM_30m.xlsx



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Figure 30
DCO baseline peak pluvial depth
1:1000 year AEP 30 min duration
climate change 2080s - credible maximum





Key

- Peak flood depth (m)
- Baseline
- 1 : 1000 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: 28/11/2016

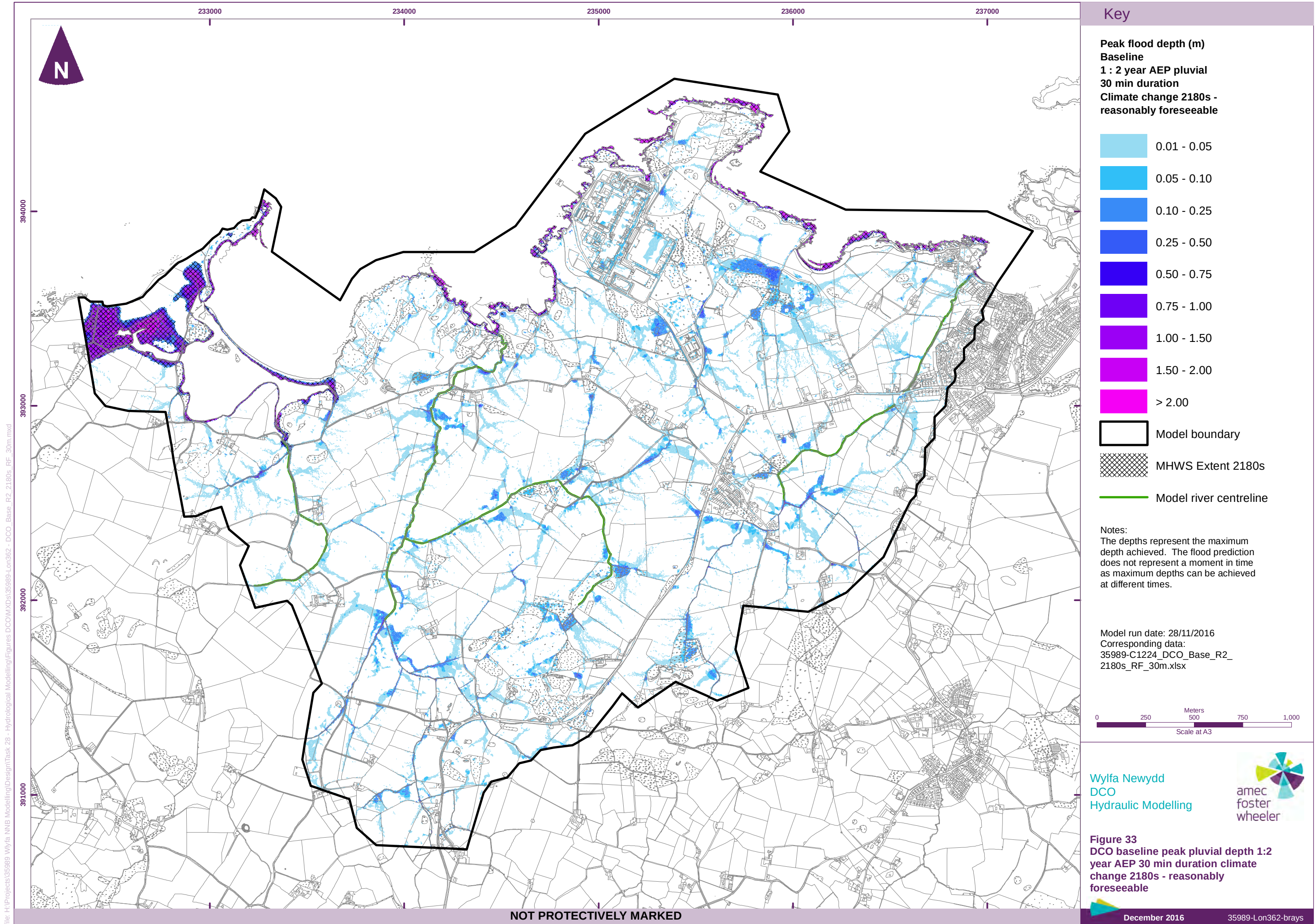
Corresponding data: 35989-C1223_DCO_Base_R1000_2080s_CM_60m.xlsx

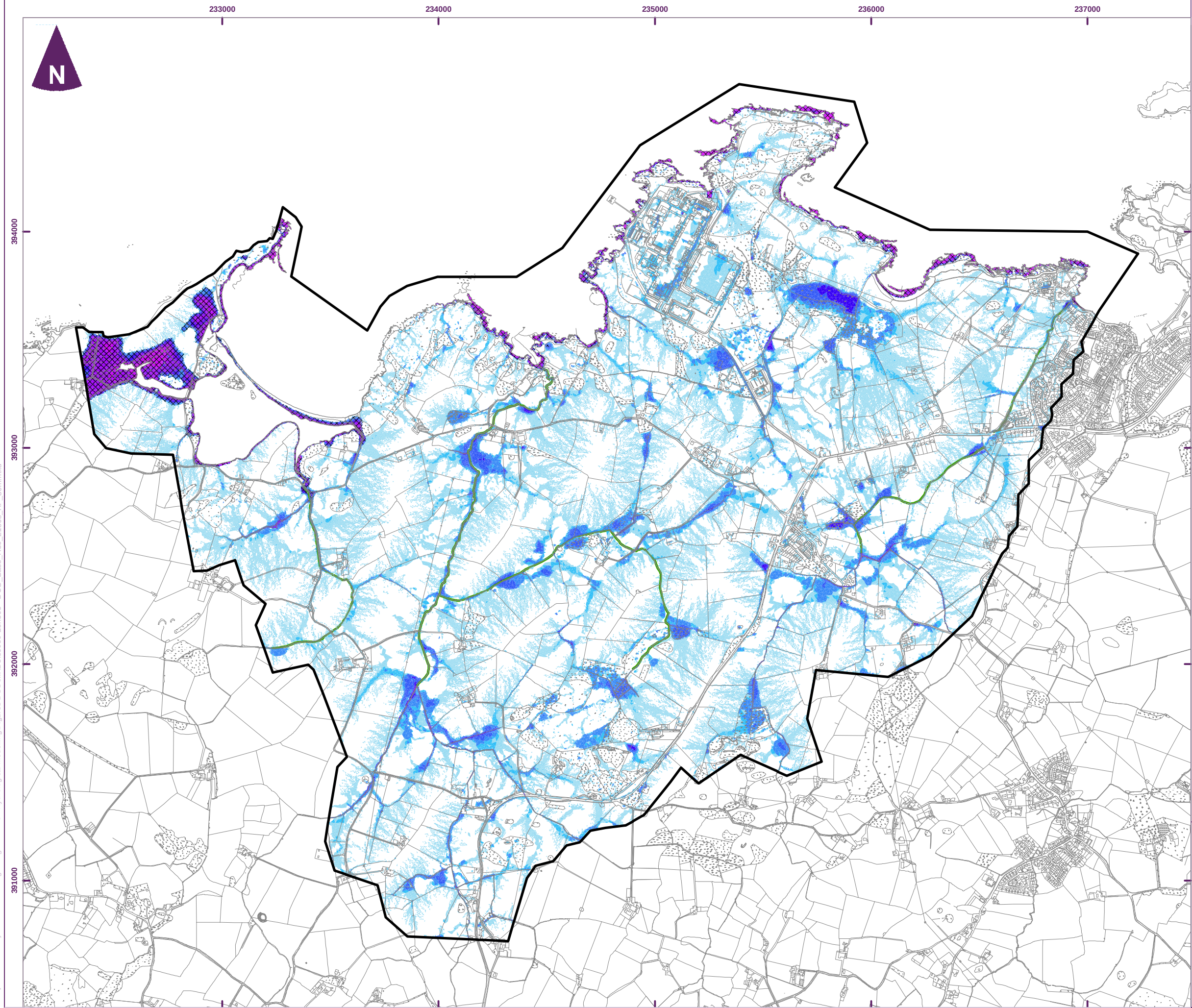


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amec
foster
wheeler

Figure 32
DCO baseline peak pluvial depth
1:1000 year AEP 60 min duration
climate change 2080s - credible maximum





Key

- Peak flood depth (m)
- Baseline
- 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:

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.

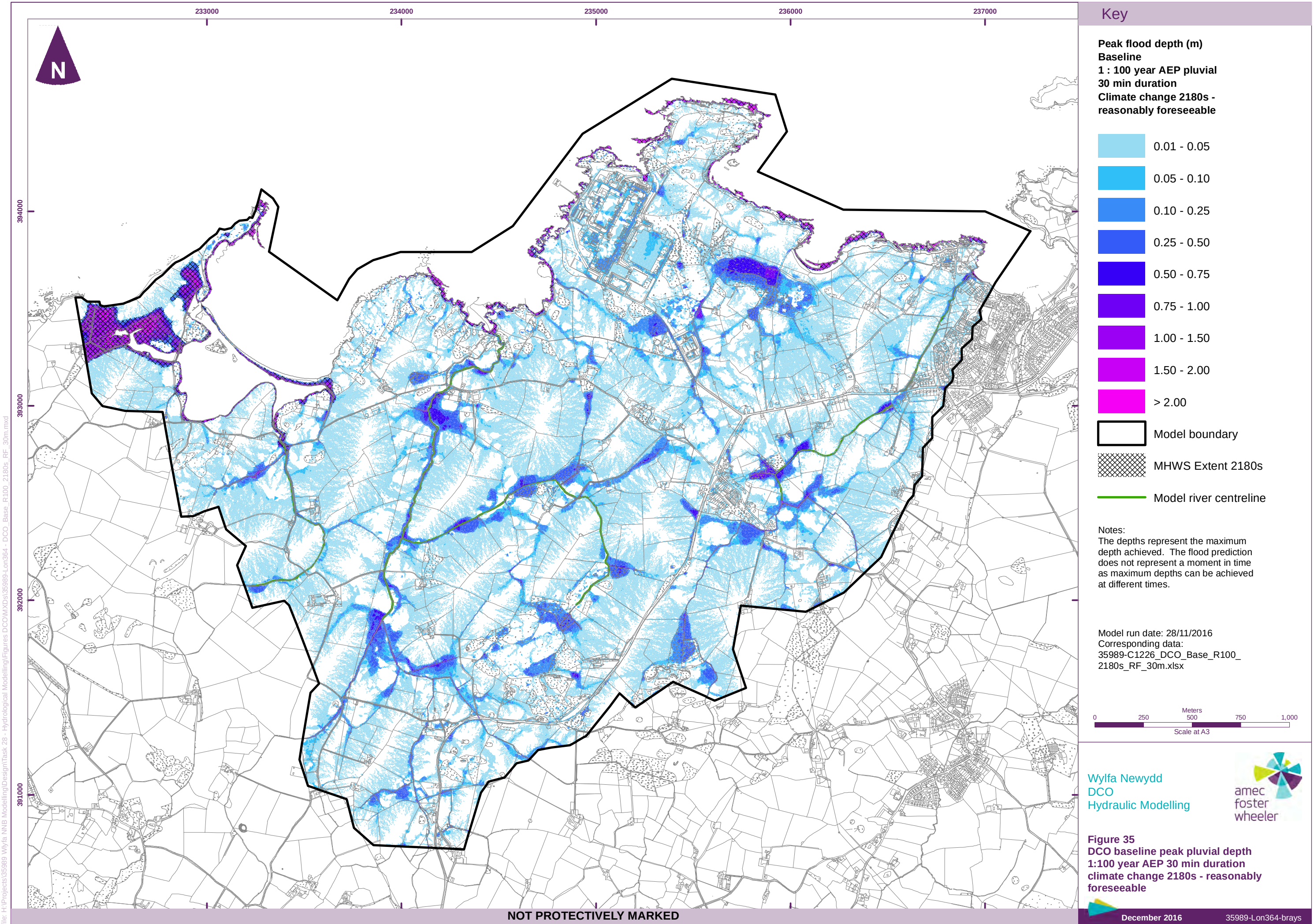
Model run date: 28/11/2016

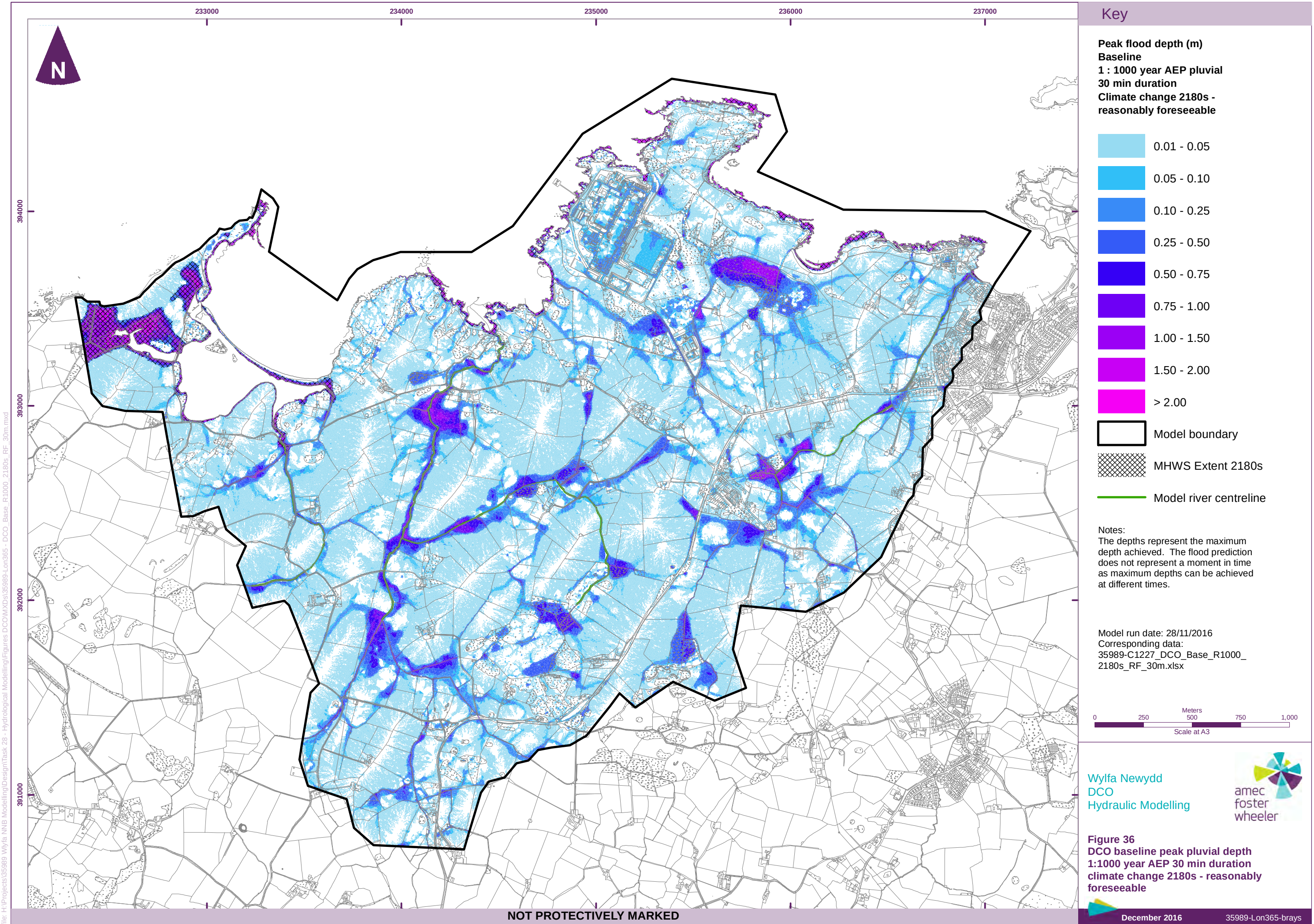
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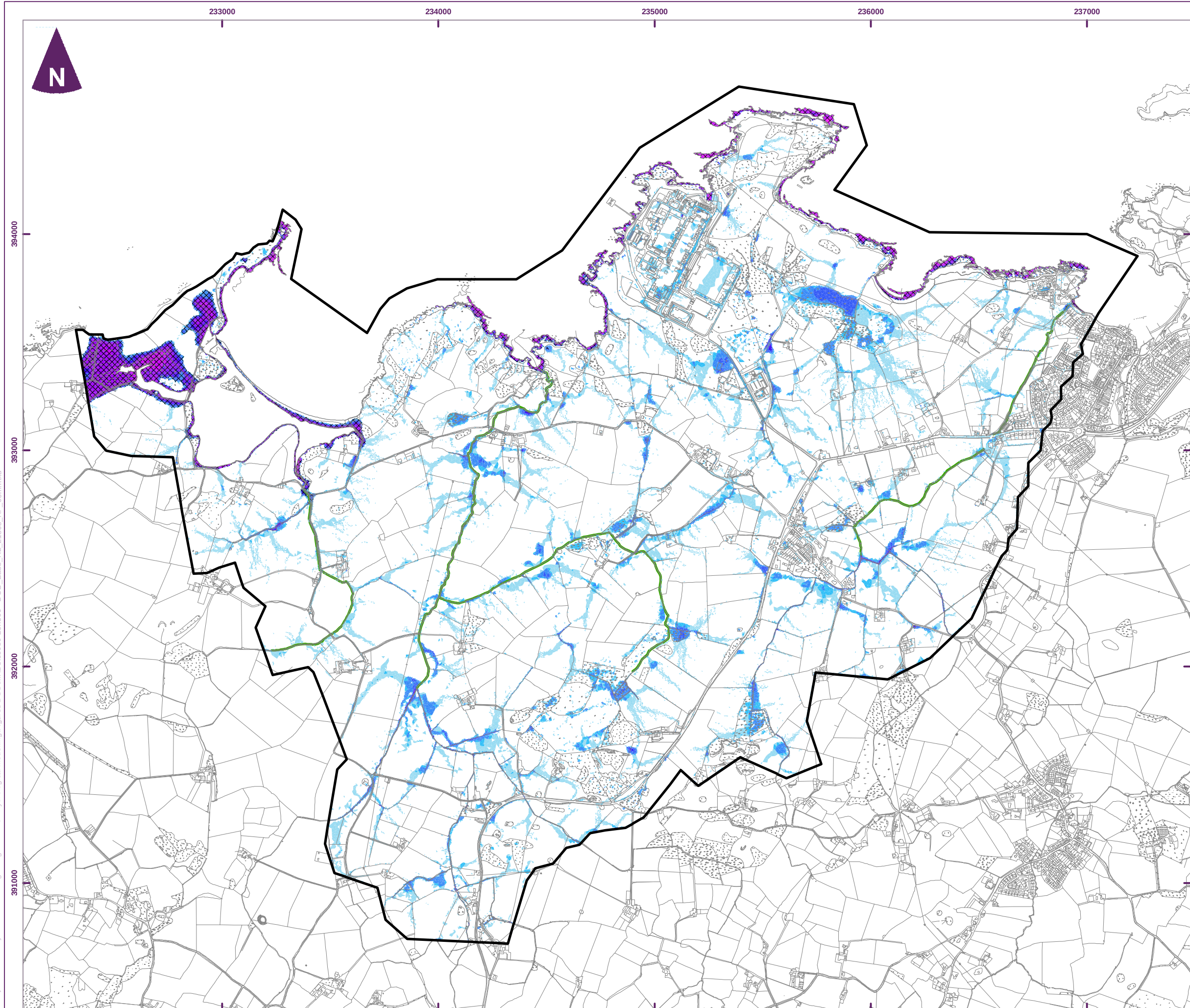


Figure 34
DCO baseline peak pluvial depth
1:30 year AEP 30 min duration
climate change 2180s - reasonably foreseeable

NOT PROTECTIVELY MARKED







Key

Peak flood depth (m)
Baseline
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
- MHWS Extent 2180s
- Model river centreline

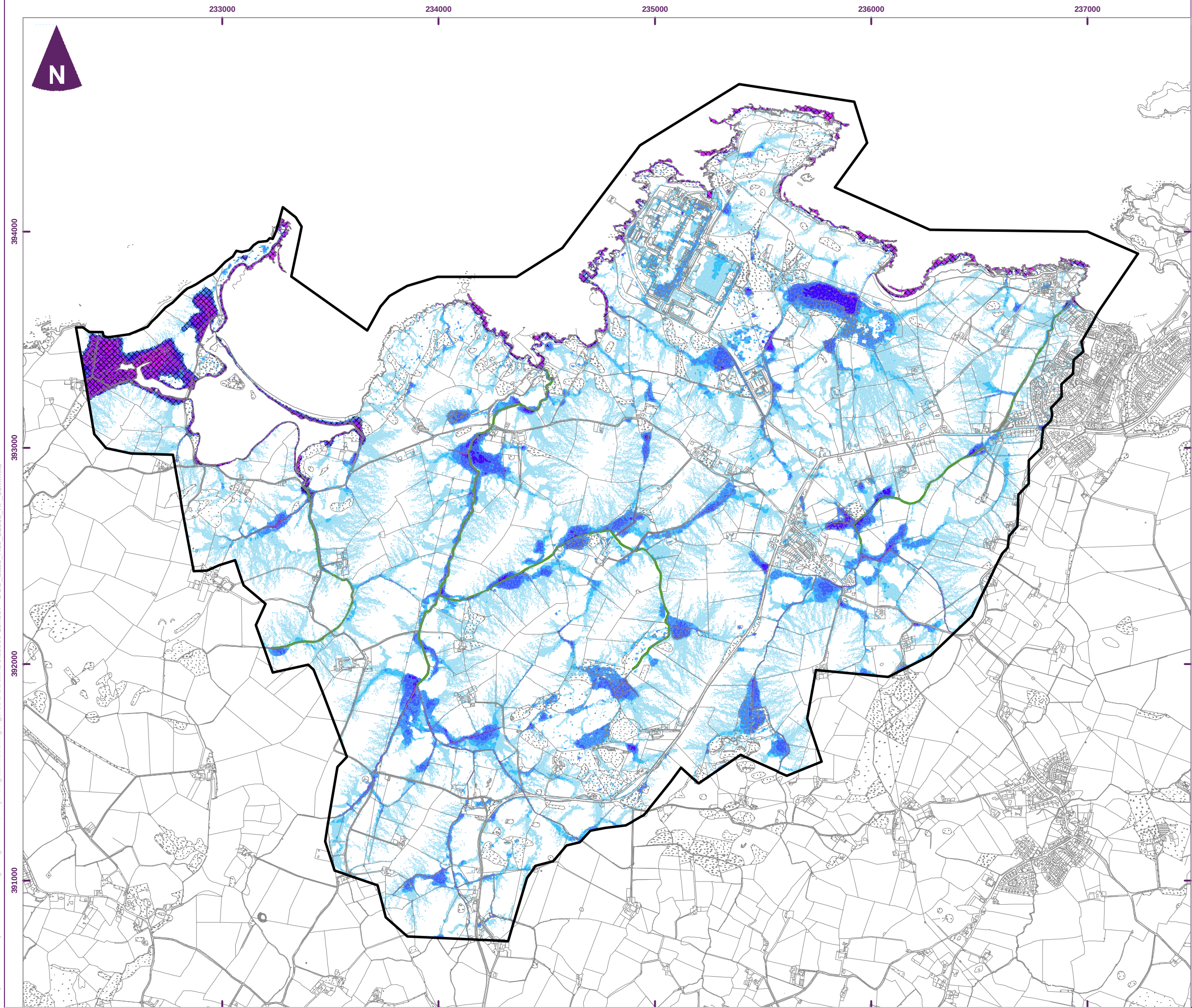
Notes:
The depths represent the maximum
depth achieved. The flood prediction
does not represent a moment in time
as maximum depths can be achieved
at different times.

Model run date: 28/11/2016
Corresponding data:
35989-C1228_DCO_Base_R2_
2180s_RF_60m.xlsx



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Figure 37
DCO baseline peak pluvial depth 1:2
year AEP 60 min duration climate
change 2180s - reasonably
foreseeable



Key

- Peak flood depth (m)
- Baseline
- 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 |
| MHWS Extent 2180s |
| 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: 28/11/2016

Corresponding data: 35989-C1229_DCO_Base_R30_2180s_RF_60m.xlsx



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Figure 38
DCO baseline peak pluvial depth
1:30 year AEP 60 min duration
climate change 2180s - reasonably foreseeable