

## Dealing with extremes

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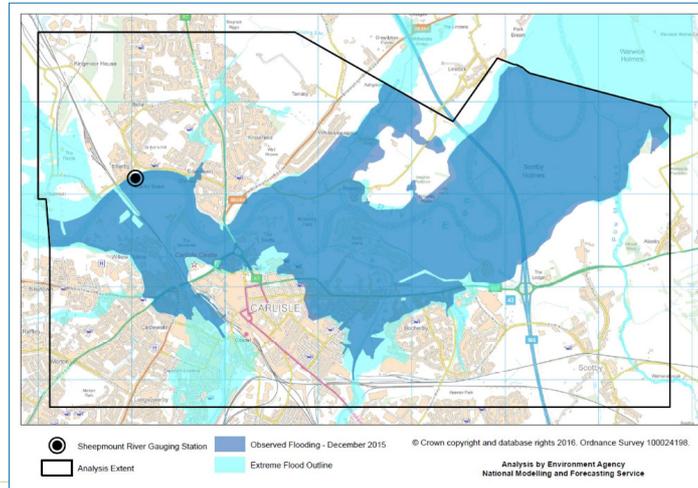
October 2016

## December record breakers

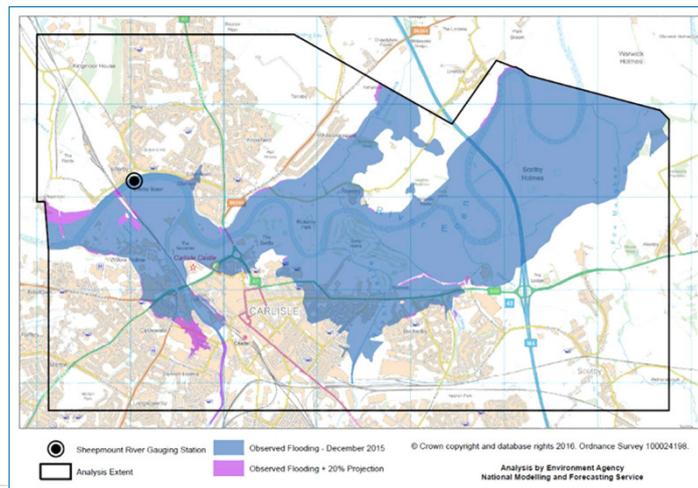
- 24-hour rainfall record for Honister Pass - 341.4 mm
- New 48-hour rainfall record for Thirlmere – 405 mm
- Wettest calendar month on record
- Largest ever flows recorded on English rivers (around 1700 cubic metres per second in Eden, Lune and Tyne)



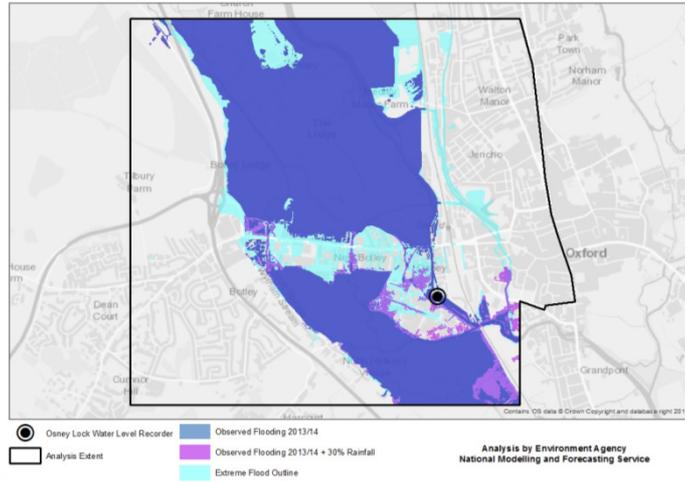
## Stress testing flood models - Carlisle



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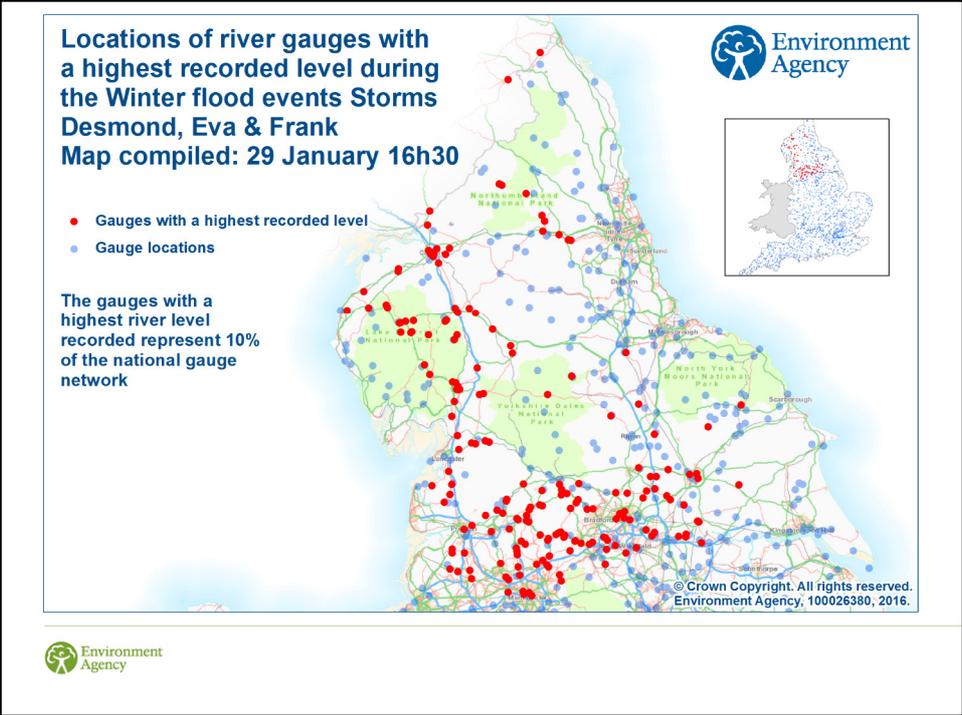


## Stress testing flood models - Oxford



## Infrastructure resilience





## Adding to the observed record



## Property Level Resilience



## Questions

- ➔ What do extreme floods mean for how we communicate risk?
- ➔ What is the role of citizens in flood preparation and response?
- ➔ What are the lessons in the context of a changing climate?

