

FRMRC flood risk management research consortium

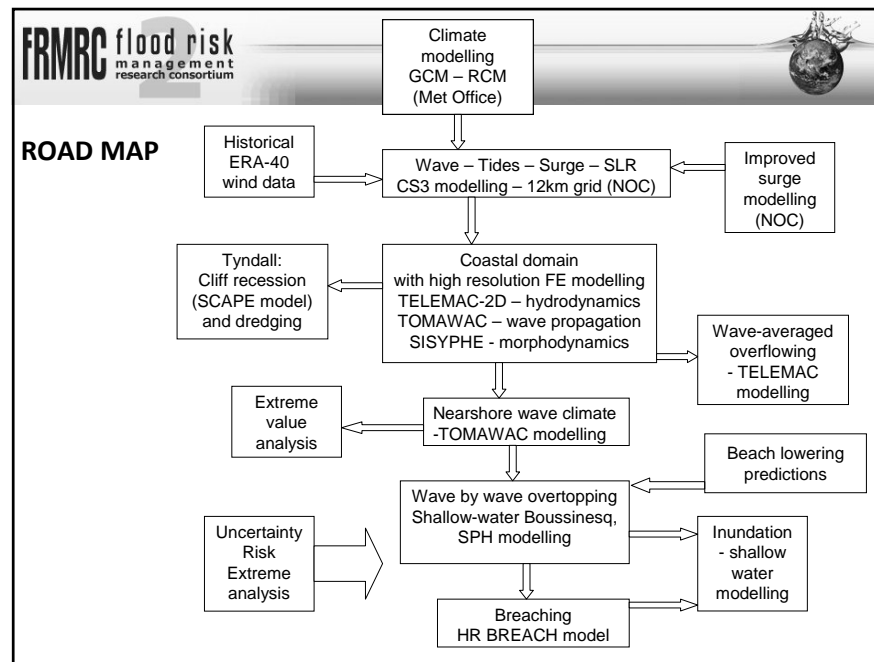
Coastal flood risk – from storm surge to inundation

Introduction

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www.floodrisk.org.uk EPSRC Environment Agency defra RIVERS OPW EPSRC Grant: EP/FP202511/1



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GENERAL METHODOLOGY

Tested on storm at Walcott, Norfolk, 9th November 2007

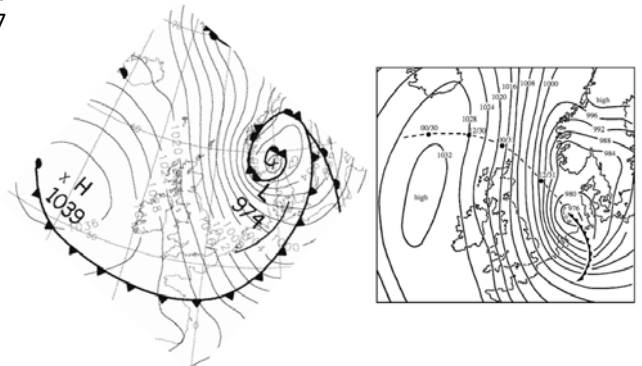
Also overtopping measured at Anchorsholme, Blackpool in January 2008 by HR Wallingford for the Environment Agency - field measurements, lab measurements, modelling

AIMS

- Predict inundation accurately from offshore conditions
- Predict statistics of overtopping/inundation with climate change and sea level rise
- Improve operational forecasting
- Analyse uncertainty

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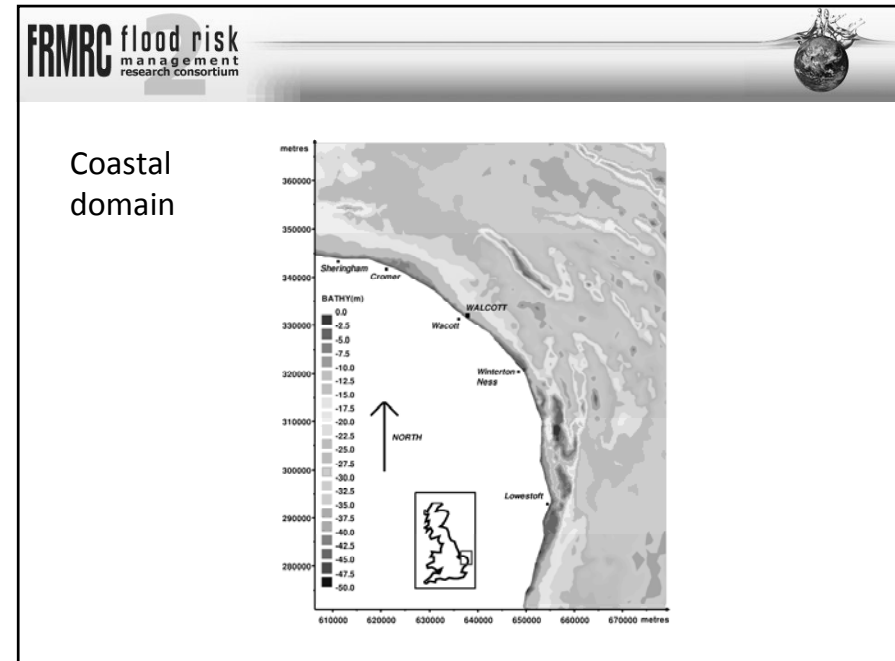
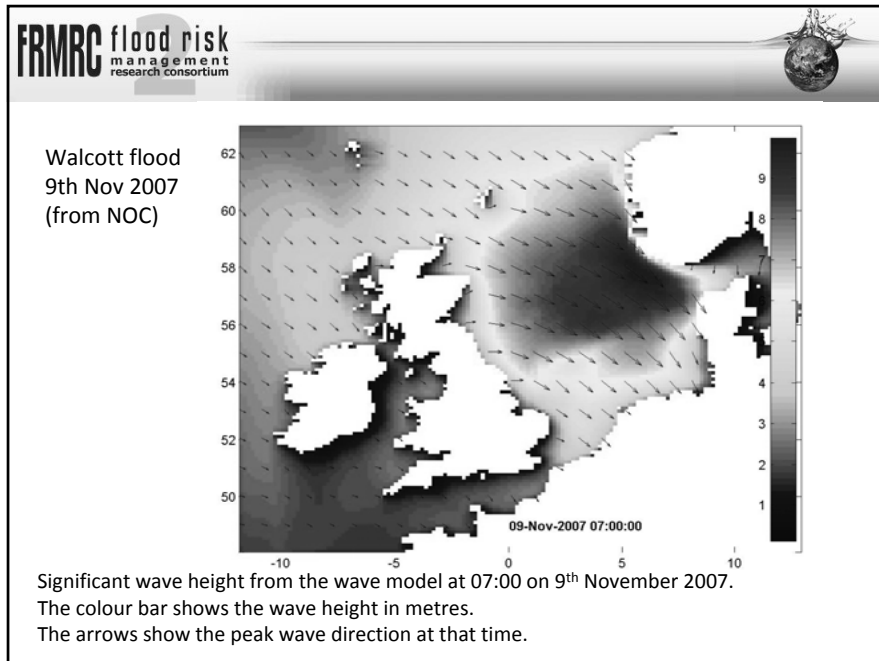
Walcott flood
9th Nov 2007
(from NOC)

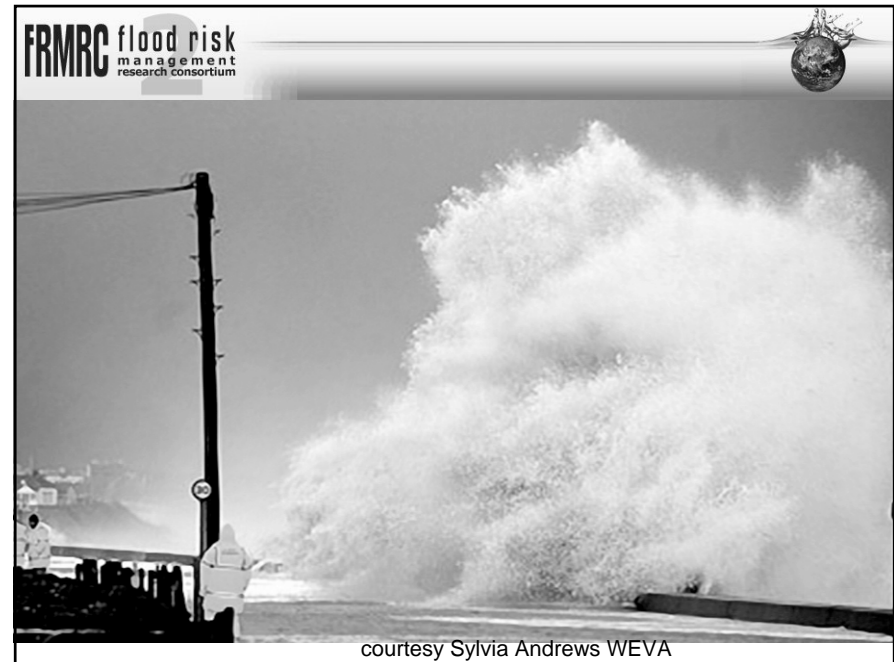
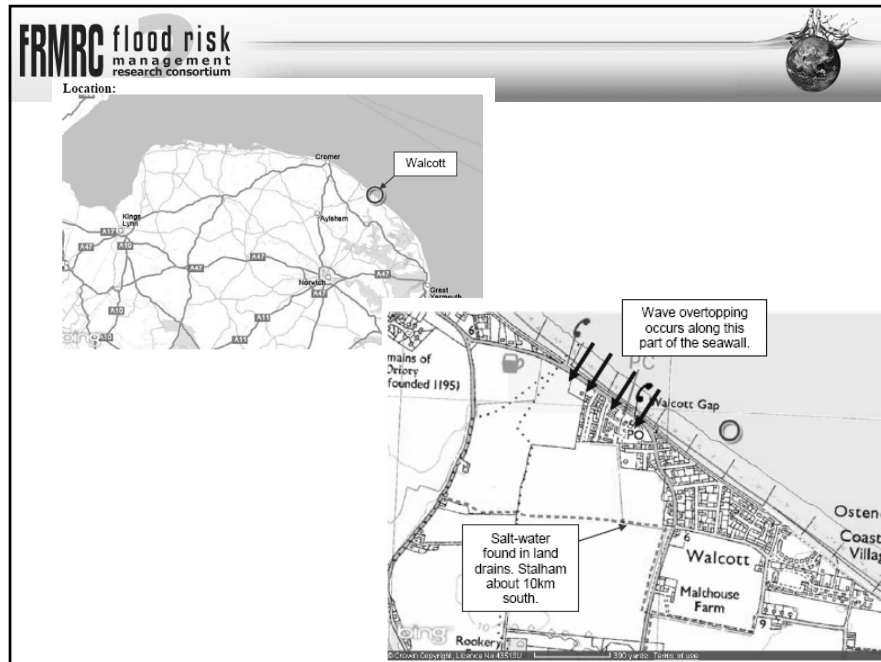


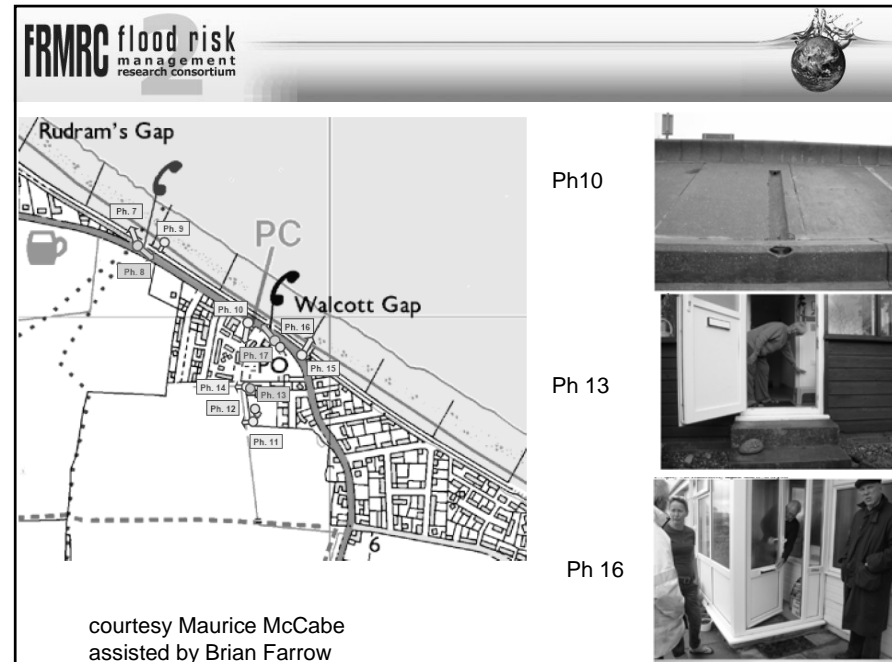
Surface pressure analysis at 00:00 GMT, 9th Nov. 2007

Surface pressure analysis at 00:00 GMT, 1st Feb. 1953

from Horsburgh et al. (2008) from Wolf and Flather (2005)








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Tyndall°Centre
for Climate Change Research



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ACKNOWLEDGMENTS

This work is funded through the **Tyndall Centre** for Climate Change Research and contributes to the Coastal Simulator programme led by **Robert Nicholls** (Southampton University). **Jim Hall** and **Mike Walkden** (Newcastle University) have provided **SCAPE** model. This was supported by the **NERC, EPSRC, ESRC**.

It is now supported by the **Flood Risk Management Research Consortium**. The FRMRC is supported by grant EP/F020511/1 from the **EPSRC**, in partnership with the **DEFRA/EA** Joint Research Programme on Flood and Coastal Defence, **UKWIR, OPW** (Ireland) and the **Rivers Agency** (Northern Ireland).

Jason Lowe was supported by the Joint **DECC and MoD** Integrated Climate Programme - (DECC) GA01101, (MoD) CBC/2B/0417_Annex C5 and **Defra**. Their financial support is gratefully acknowledged.

We would also like to acknowledge **Gerard Goasguen (CETMEF)** for making the **ANEMOC** dataset available, **Kevin Horsburgh (POL)** for providing with the results from CS3X model driven with **ERA-40** reanalysis, and the **British Oceanographic Data Centre** for field wave records. **Peter Balson** from **BGS** for providing sediment data offshore of Norfolk.



Acknowledgement

The research reported in this presentation was conducted as part of the Flood Risk Management Research Consortium with support from the:

- **Engineering and Physical Sciences Research Council**
- **Department of Environment, Food and Rural Affairs/Environment Agency Joint Research Programme**
- **United Kingdom Water Industry Research**
- **Office of Public Works Dublin**
- **Northern Ireland Rivers Agency**

Data were provided by the EA and the Ordnance Survey.

www.floodrisk.org.uk      EPSRC Grant: EP/FP202511/1