

Flood Response Planning in England & Wales

Katharine Evans

Policy Manager - Flood Incident Management

Environment Agency, United Kingdom



Outline

- Flood risk in England & Wales
- The Environment Agency's role
- The Civil Contingencies Act
- Flood Emergency Capability Programme
- Multi-Agency Flood Plans
- Enabling decisions during flooding
- Responses to severe floods
- Conclusions



Flood Risk in England & Wales



Flooding from rivers & the sea

- 2.3 million properties
- 11% of land
- 4.4m people

Risk from other flooding

- rising groundwater
- surface water



Our role - managing flood risk

- Mapping & modelling flood risk
- Controlling building in floodplain
- Raising awareness of flooding
- Forecasting & Warning
- Building defences





Civil Contingencies Act

- Assess the risk of emergencies occurring
- Put in place emergency plans
- Inform the public about the risks
- Warn & keep public informed when events occur
- Co-operate & share information with other local responders
- Business Continuity Management



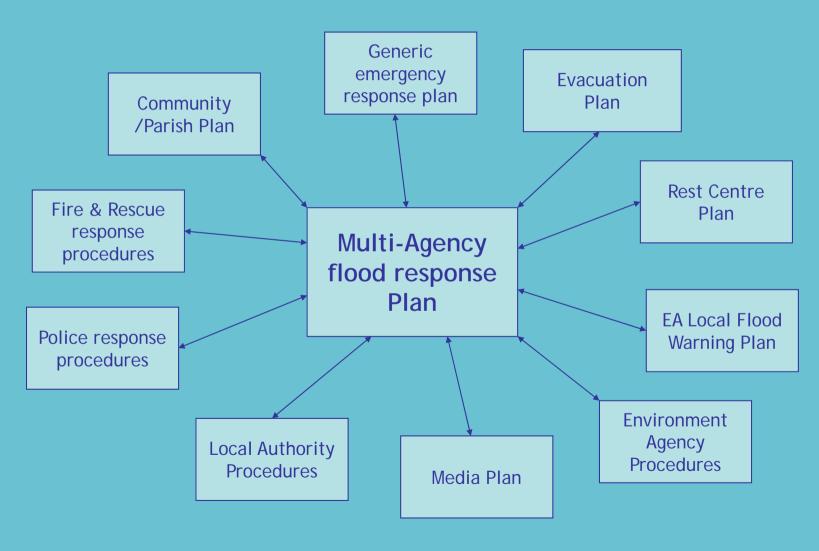
Flood Emergencies Capability Programme

- Plans for flooding
- Meeting needs of vulnerable
- Recovery from flooding
- Awareness of flooding
- National exercises
- Water rescue
- Distributing resources
- Capability survey





Links into Multi-Agency flood response plans









Flood warnings

This page is updated every 15 minutes to provide you with the carrent flace warnings in force.

Floor tremitty:

Search for floor warning intervalion for your areas some effect the search or dick on the regional way.

Search by

Post code

Search for

Flood searing

Flood all clear
No flood activity

a dia ta san debia.

Anglian Region

26 warnings

Hatland Summary

Last updated 15:38 on 36 June 2008

Swern Reed Warning Reed Watch All Clear Reed Watch

Got a flood warning

0845 988 1188

to receive Flecidine
Welmings Direct, our free
pervices that provides frecision
welmings about to year by
telephone, include, fair
or unique.

External times

B BECWhother

Accordation of British

Agence

Scottati Environmenti Protestion Agencia

Areaston

Tile are not empossible for the content of other seds after





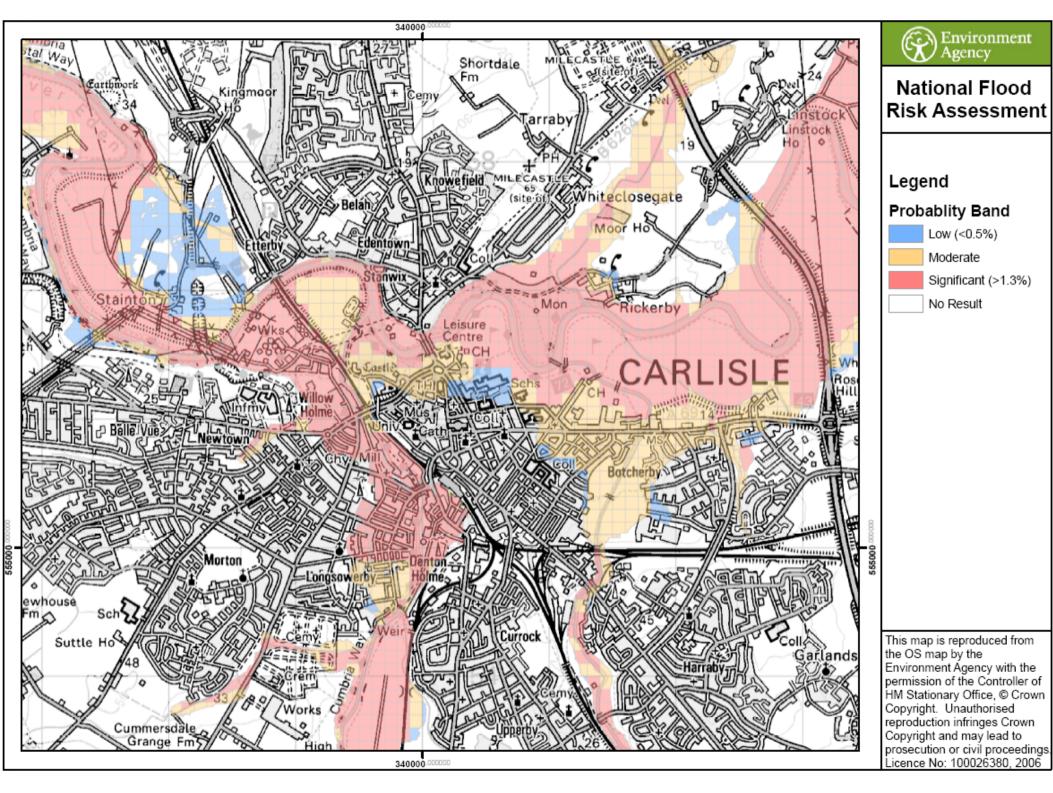


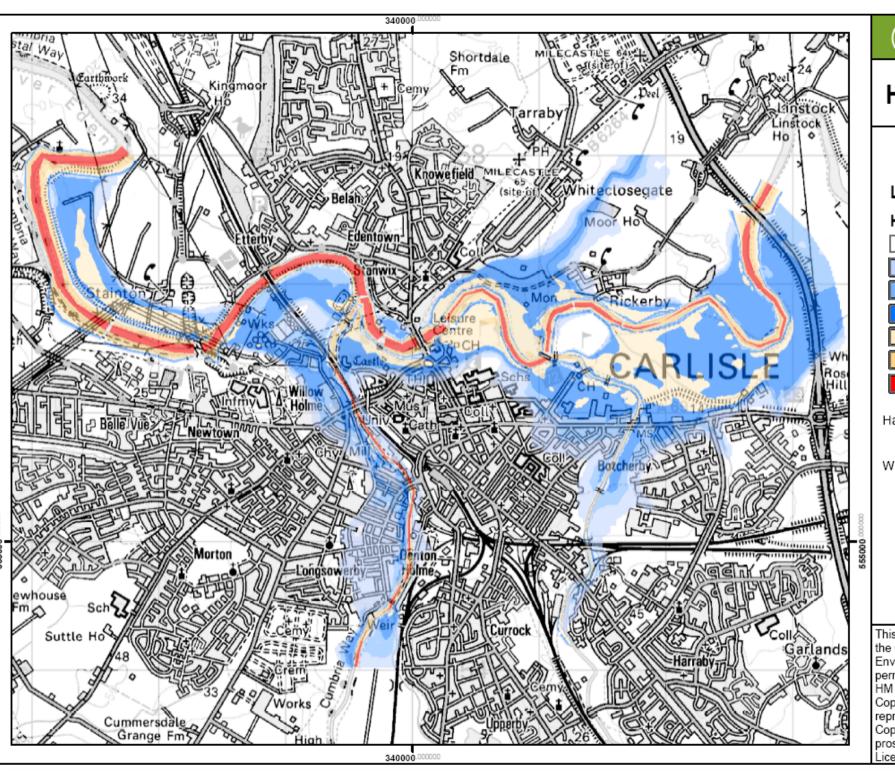
Multi-agency response to floods

- Many roles undertaken by different organisations
- Information and decisions carried in structured command and control process











Hazard Map

Legend

Hazard Rating

____0

0.10 - 0.75

0.76 - 1.25

1.26 - 2.50

2.60 - 5.00

= ---

5.10 - 10.00

10.10 - 30.00

Hazard Rating (HR) = $d \times (v + 0.5) + DF$

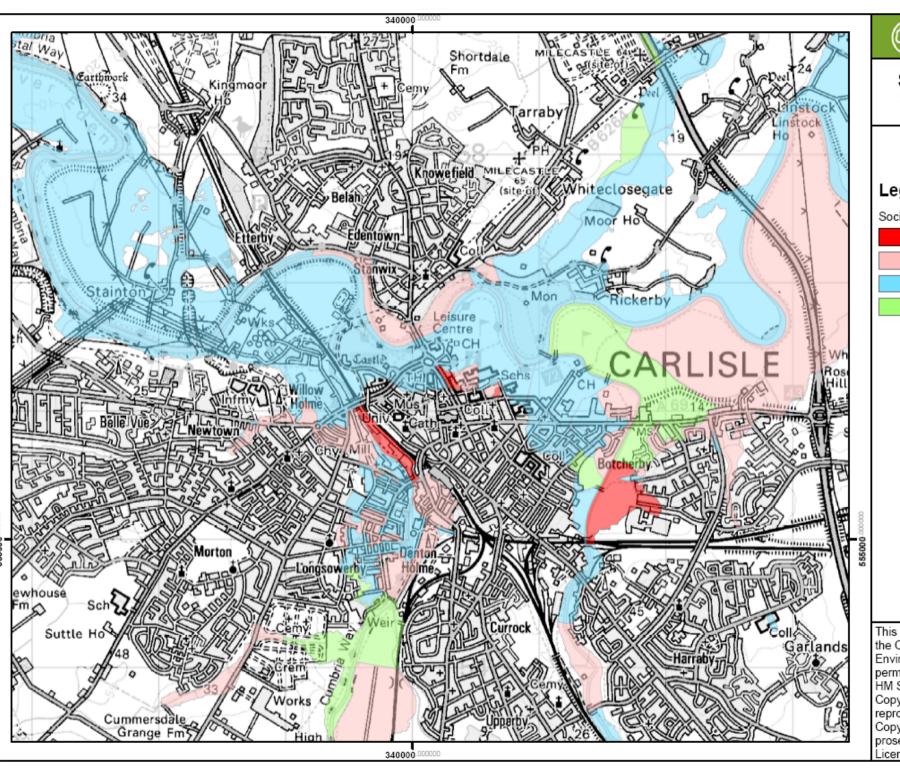
Where:

d = Depth

v = Velocity

DF = Debris Factor

This map is reproduced from the OS map by the Environment Agency with the permission of the Controller of HM Stationary Office, © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Licence No: 100026380, 2006





Social Flood Vulnerablity

Legend

Social Flood Vulnerablity Index

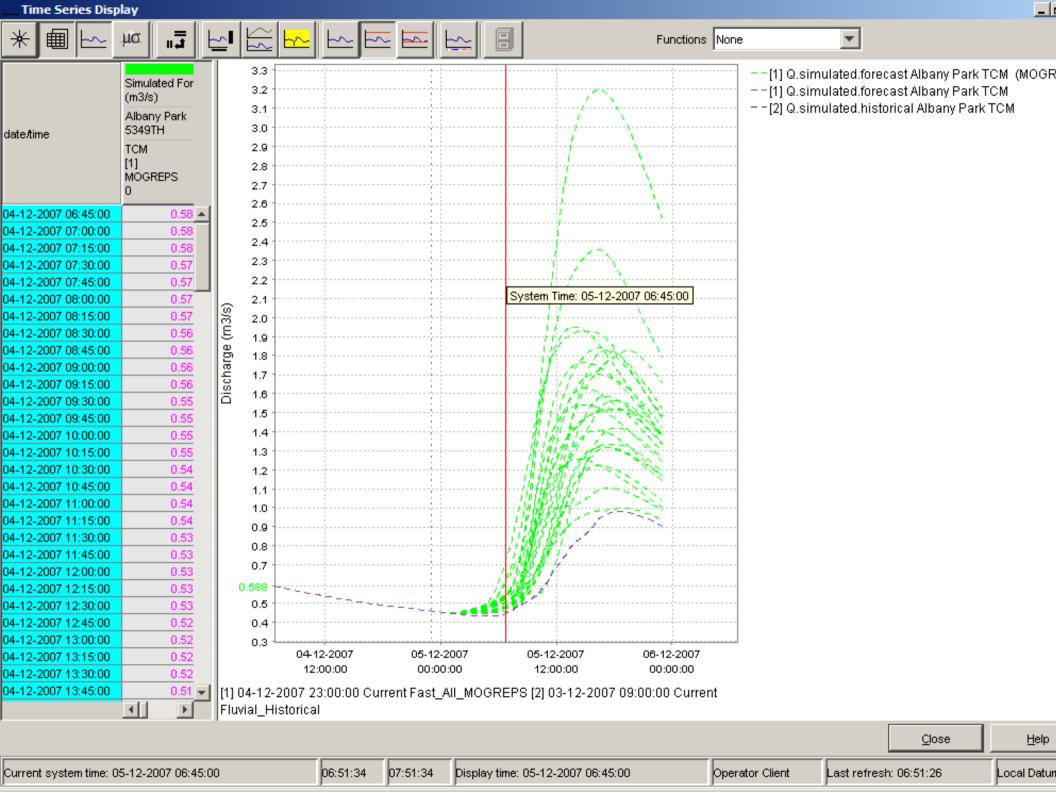
Very High High

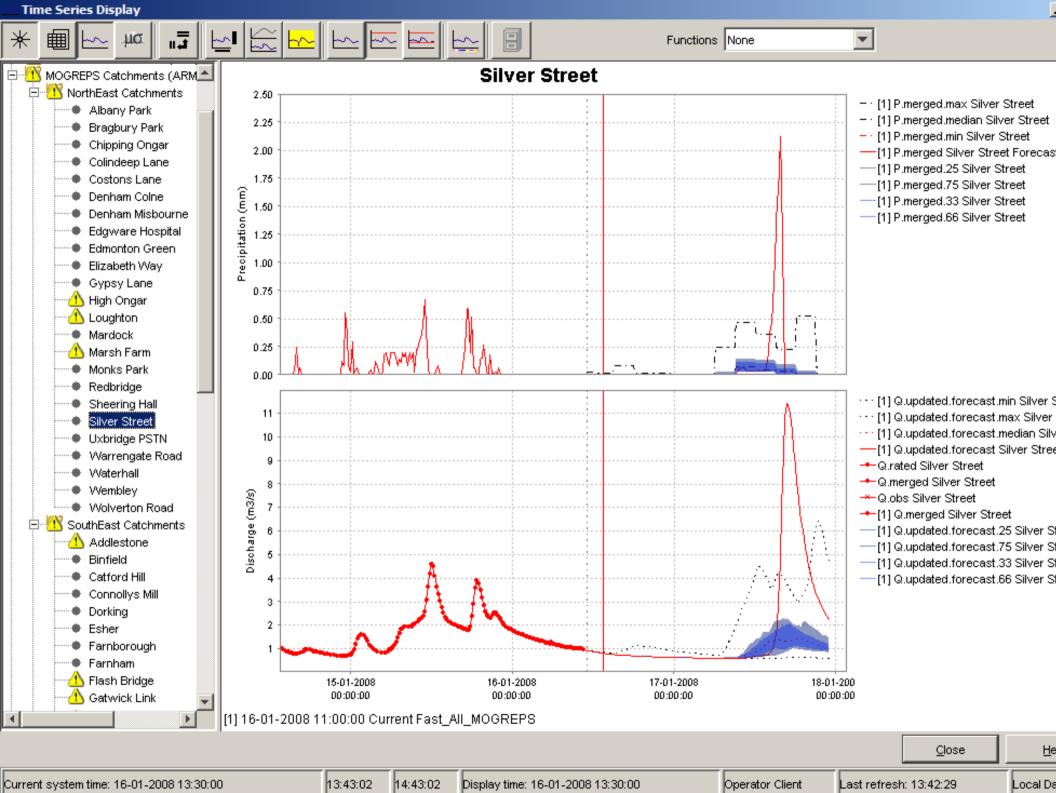
111911

Medium

Low

This map is reproduced from the OS map by the Environment Agency with the permission of the Controller of HM Stationary Office, © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Licence No: 100026380, 2006



















Conclusions

- Multi-agency working has been given structure by the CCA
- Improvements can & are still being made
- Response to flooding is only effective when many partners work together
- Clarity of roles is key
- Citizens have a role too



Katharine Evans @environment-agency.gov.uk