

Environment and Transportation Select Committee

Preliminary Flood Risk Assessment

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Hampshire
County Council

Flood Risk Management Chronology

- 2000/1 – groundwater flooding across Hampshire
- 2007 – widespread UK flooding led to independent review by Sir Michael Pitt
 - » 92 recommendations
- 2007 EU Floods Directive
- 2009 Surface Water Management Plans (DEFRA)
- 2009 Flood Risk Regulations
- 2010 Flood & Water Management Act
 - » Local and National Flood Risk Management Strategy

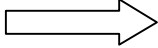
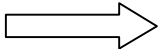
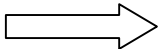
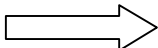
EU Floods Directive

- Over 100 severe flooding incidents between 1998 – 2005 affecting over 500,000 people
- EU response was the EU Floods Directive



- Requires all member states to:
 - Assess risk of flooding from all sources
 - Map flood extents, assets and people at risk
 - Take adequate and co-ordinated measures to reduce risk
- 6 year update cycle linked to the Water Framework Directive

Flood Risk Regulations 2009

- Transposed the EU Floods Directive into UK Law
- Provide a consistent approach to managing flood risk across Europe
- 6 year planning cycle based on a 4 stage process
- - Preliminary Flood Risk Assessment  June 11
 - Identification of Flood Risk Areas  June 11
 - Flood and Hazard Maps  June 13
 - Flood Risk Management Plans  June 15
- Linked to and consistent with requirements of the Flood and Water Management Act 2010.

Flood & Water Management Act 2010

- Defines Lead Local Flood Authority (LLFA)
- Duty to investigate major flooding incidents
- Register of structures and other features affecting flood risk
- Designation and registration of third party owned features
- SUDS approval body – 2012?
- Scrutiny Duty – amends LG Act to include responsibility to scrutinise other FRM authorities – Districts, EA, water companies etc in the exercising of their FRM functions

Preliminary Flood Risk Assessment

- Hampshire is a Lead Local Flood Authority (LLFA)
- LLFAs required to undertake a Preliminary Flood Risk Assessment
- Documentation and assessment to be developed by LLFAs with the Environment Agency providing an overview role
- High level screening exercise collating information on historic and potential floods
- All local sources of flood risk to be included
 - Surface Runoff
 - Groundwater
 - Ordinary Watercourses
- Flood risk from rivers and the sea to be assessed by the Environment Agency



Preliminary Flood Risk Assessment

- Based on existing and available information bringing together information from national and local sources.
- Data assessed and used to identify areas where there are areas of significant risk (national definition).
- Areas of nationally significant flood risk reported to European Commission
- The PFRA process will also feed into the local strategies under the Flood and Water Management Act.

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Preliminary Flood Risk Assessment

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Senior Engineer

Flood Risk Management Team



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Preliminary Flood Risk Assessment Data Collection

- Governance / Communication
- Readily available information collated and assessed to determine relative flood risk within LLFA area
- Areas known to be at risk of flooding identified in collaboration between HCC, Districts and public consultation.
- Sites input onto spreadsheet and assessed for risk.
- Risk assessment based on PPS25 – planning policy statement for flood risk

Preliminary Flood Risk Assessment

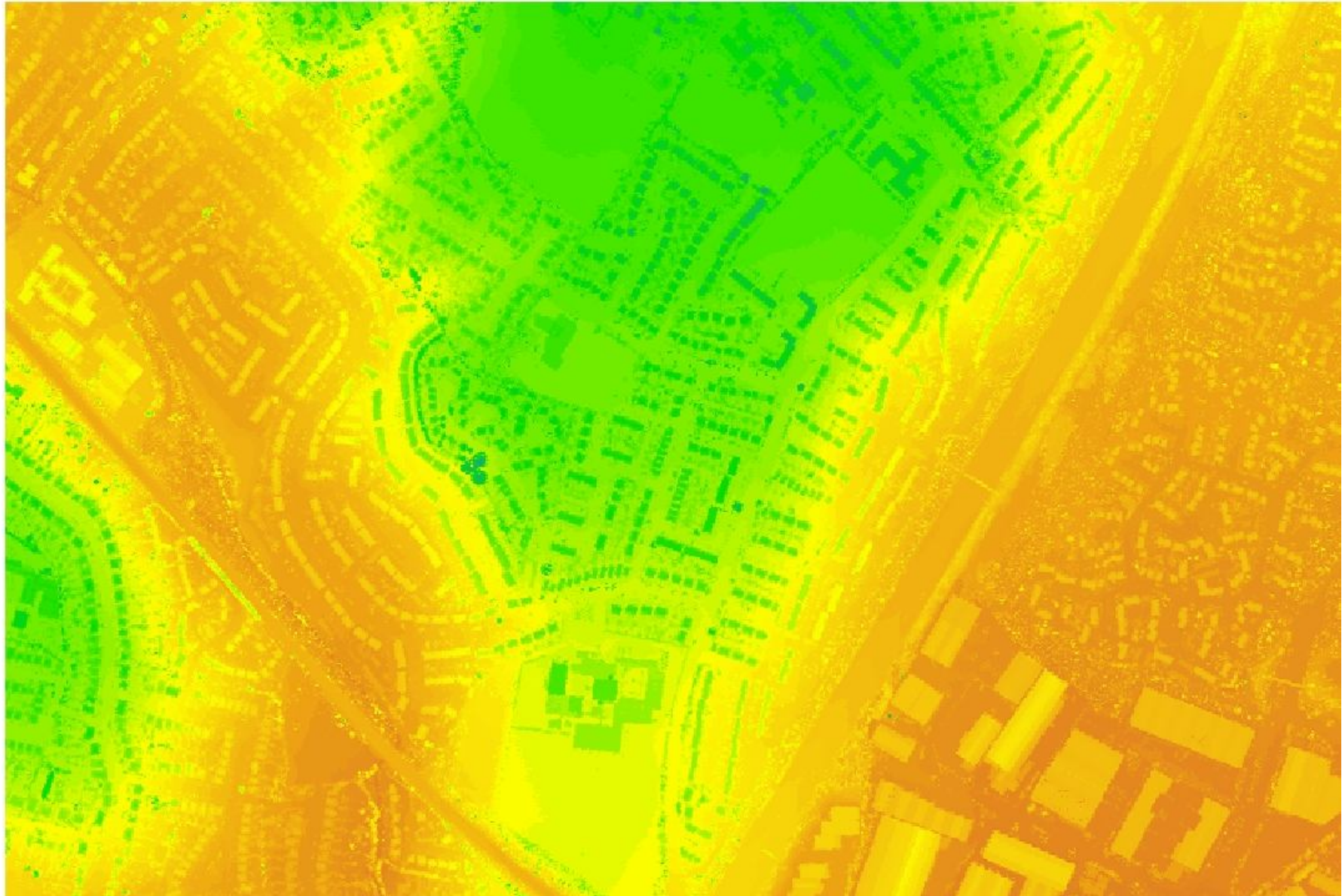
Annex 1 – historic flood risk

- Standard Template
- Designed for large floods that have registered at a national level
- Only floods where sufficient information on cause and consequence should be recorded
- Within Hampshire, only the groundwater flooding of 2000/01 meet these criteria.

Preliminary Flood Risk Assessment

Potential Flood Risk Areas

- Mapping developed by the Environment Agency
- Environment Agency mapping developed to provide nationally consistent approach to potential flood risk
- Different modelling parameters used so maps need to be assessed using local knowledge to determine which is most suitable and for which area.



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Preliminary Flood Risk Assessment

Annex 2 – Future flood Risk

- Standard Template
- Identification of potential consequences using each individual flood map
- Extremely high level assessment with single entry for the whole county

Preliminary Flood Risk Assessment Clusters

- Formed from 3x3km grid squares where there are 5 or more touching 1km squares exceeding a specified threshold.
- Threshold set at
 - >200 people at risk of flooding
 - >20 businesses
 - >1 critical service

Preliminary Flood Risk Assessment

Flood Risk Areas

- Areas of nationally significant risk (>30,000 people) considered to be flood risk areas and reportable to Europe.
- No reportable Flood Risk Areas within Hampshire
- 8 areas identified within Hampshire as having a potential risk of future flooding.

Preliminary Flood Risk Assessment Conclusion

- PFRA is a legal requirement
- Will continue to be a 'work in progress'
- Already seeing results from the data collection and assessment process