

# The Somerset WAVE Project: **Flood Risk Modelling**



**maslen**  
*environmental*  
part of the JBA Group



Ken Moss  
Environment Agency

[www.waveproject.eu](http://www.waveproject.eu)  
[www.somersetwave.co.uk](http://www.somersetwave.co.uk)



## 6 European partners



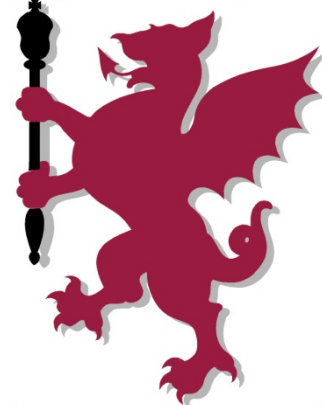


ENVIRONMENT  
AGENCY



Farming &  
Wildlife  
Advisory  
Group

SOMERSET



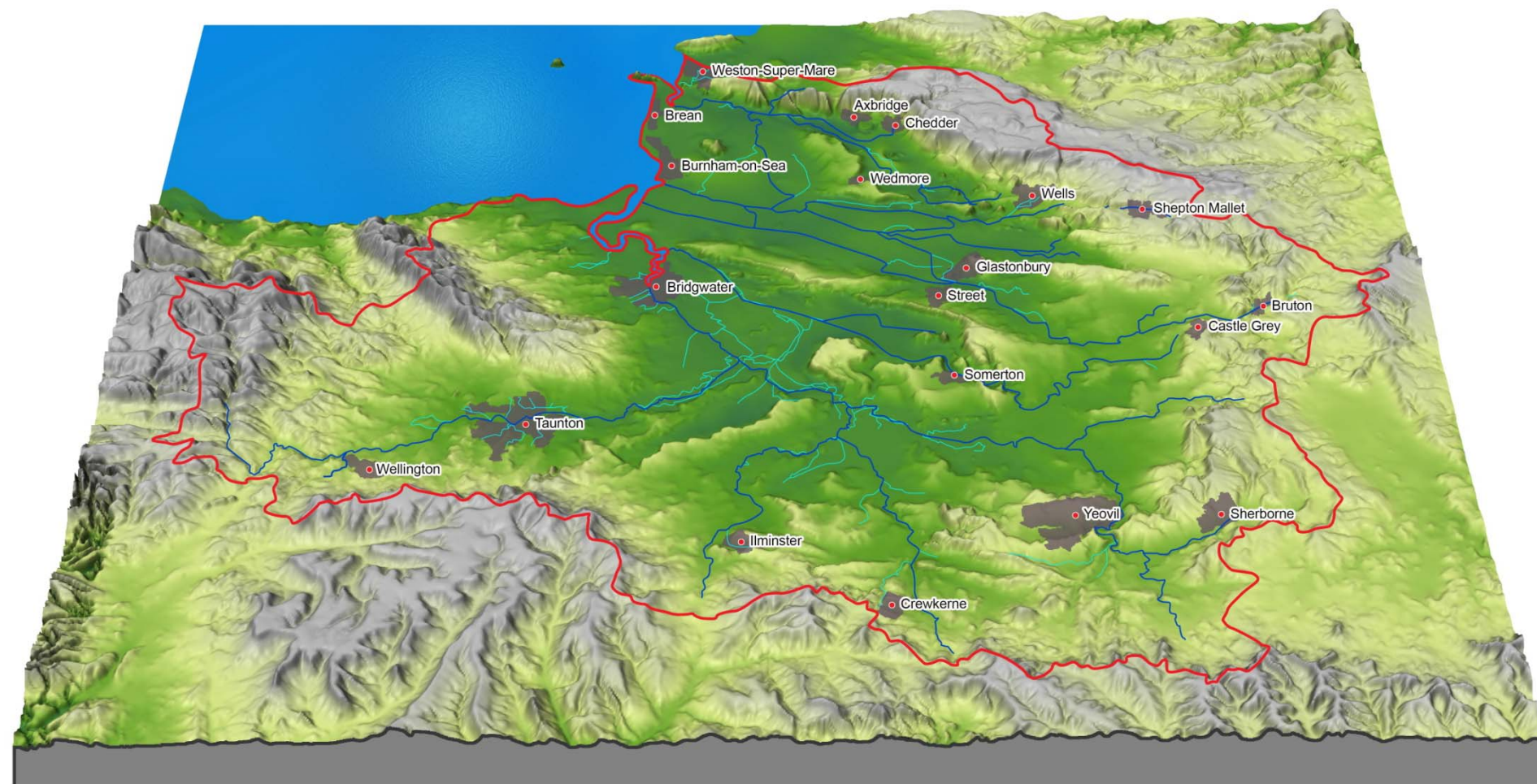
County Council



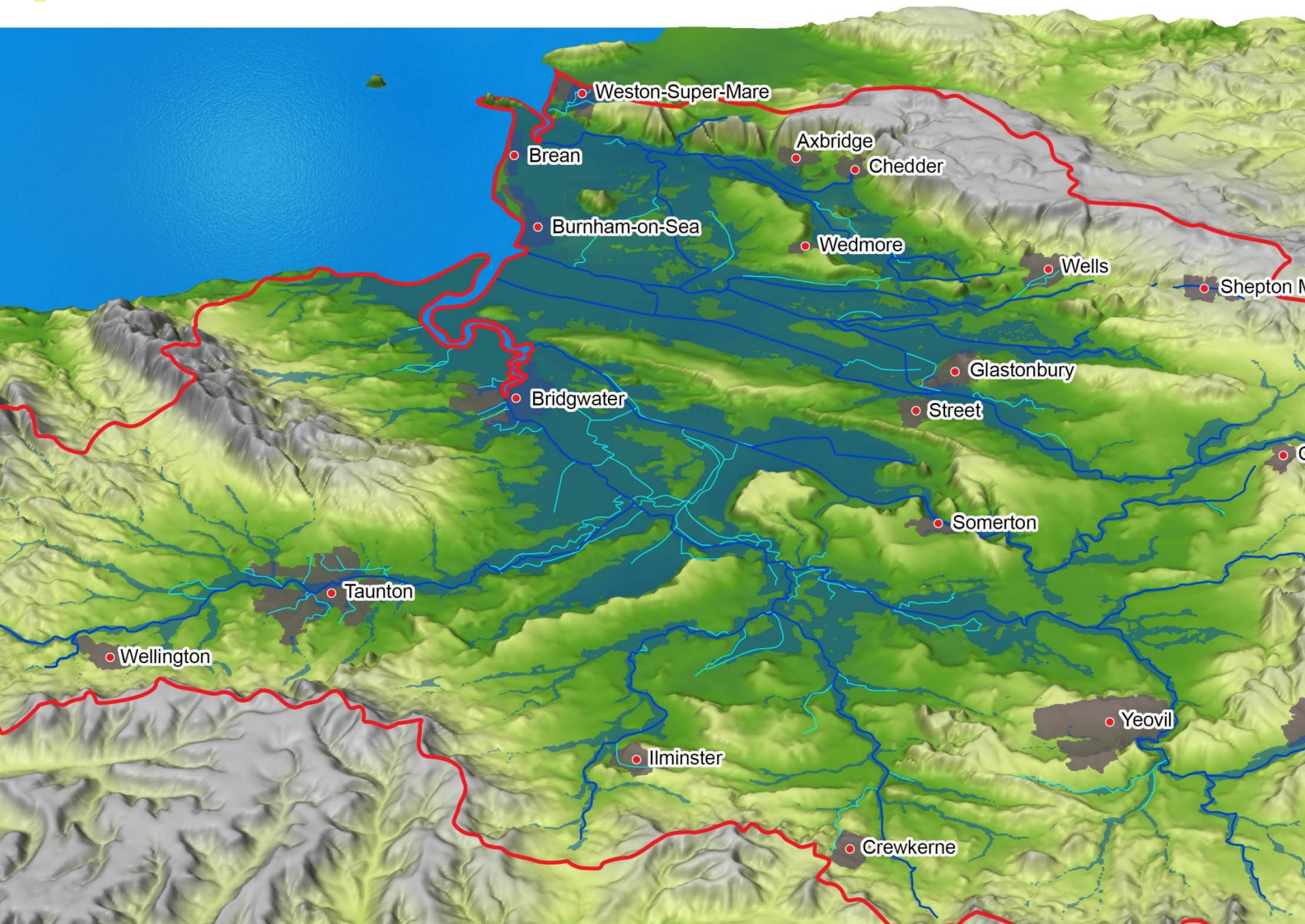
SOMERSET

















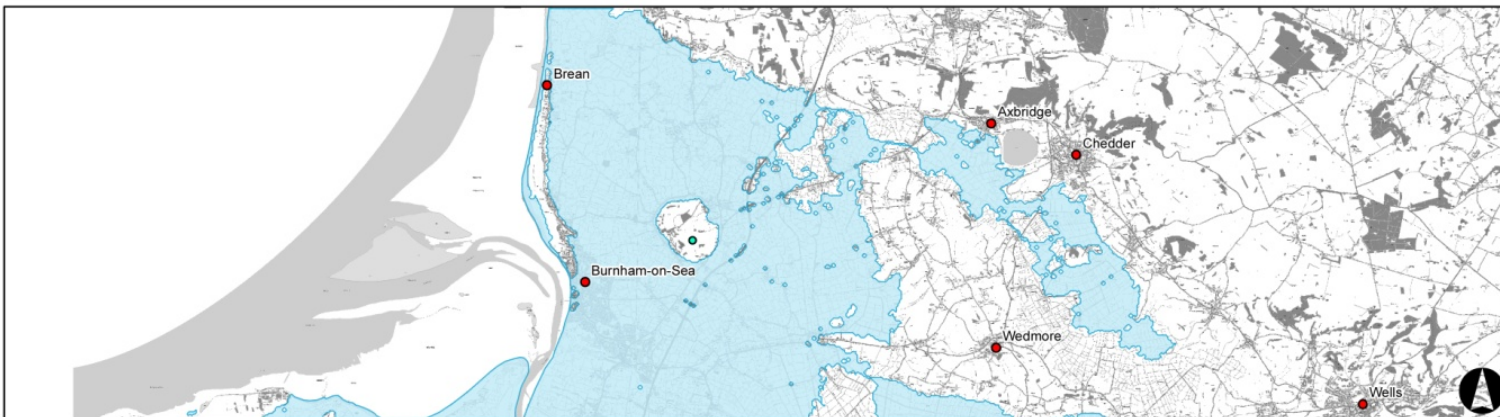
# 1 in 200 year undefended tidal (Burnham-on-Sea)



Current



2060



2110

## 200 year undefended tidal flood extent from Brent Knoll

**Current**



**2060**



**2110**





# 200 year defended tidal flood extent (Burnham-on-Sea)



Current



2060



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# 200 year defended tidal flood extent from Brent Knoll

Current



2060

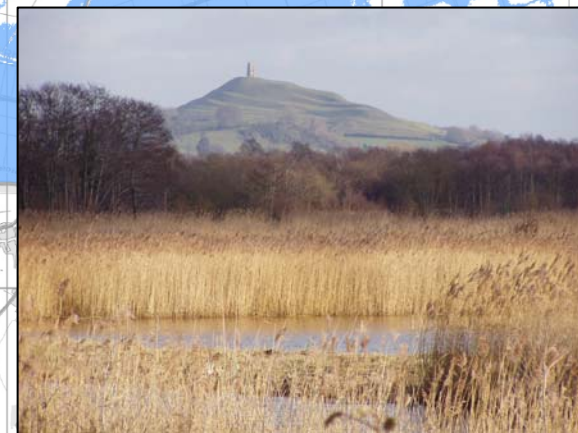
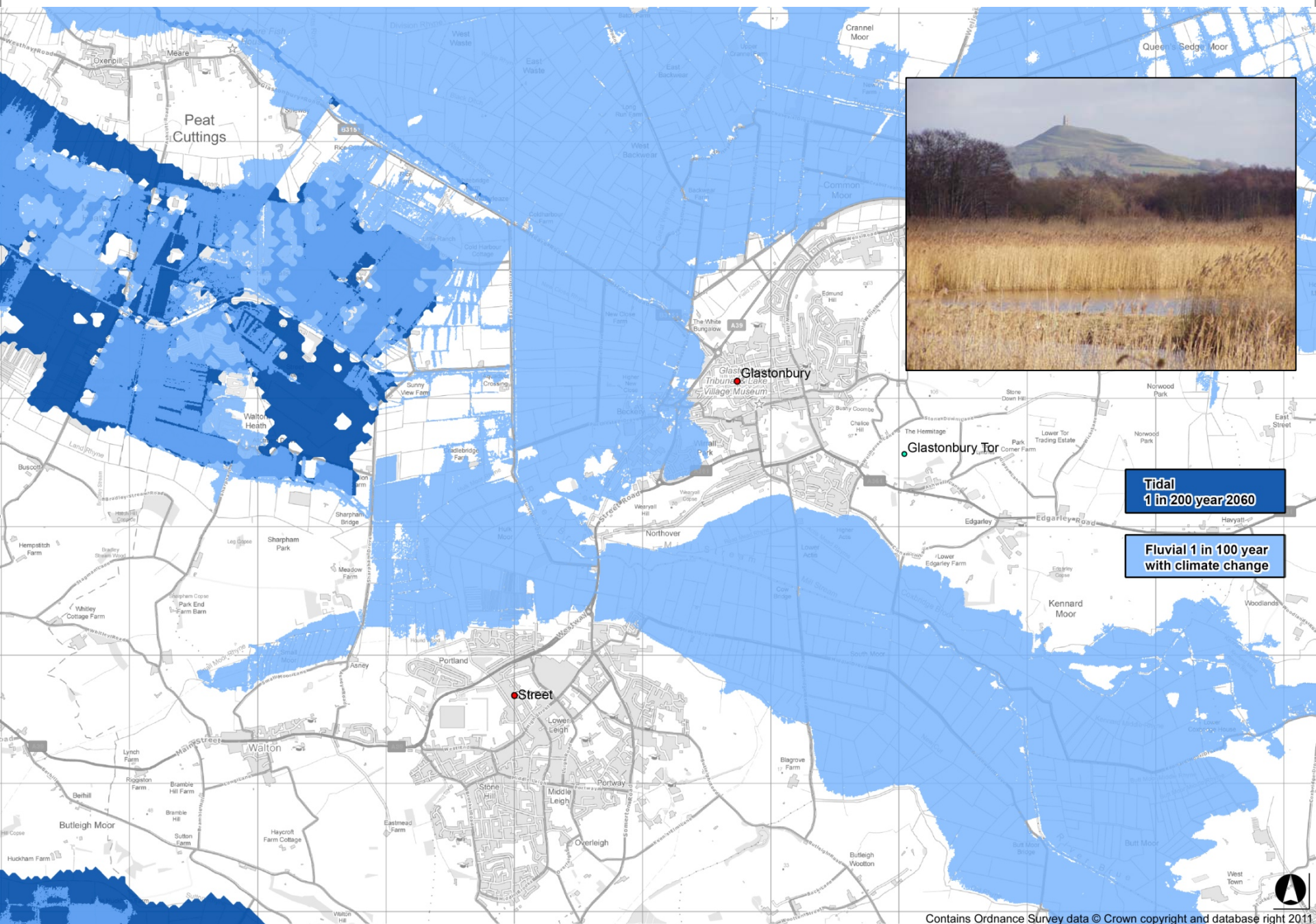


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# Future tidal and fluvial flood risk (2060, undefended)



**Tidal  
1 in 200 year 2060**

**Fluvial 1 in 100 year  
with climate change**





Current



With Climate Change





**Taking the work forward**





**“rapid changes are very difficult to manage and adapt to”**

**“flooding farmland is intolerable”**



**“lack of watercourse maintenance is reducing conveyance”**

**“regulatory demands need to be appropriate to agricultural business”**



Change Projections

Climate Elements

Animated Scenarios

## Welcome to the WAVE Project













































- 
- ➡ The Somerset landscape will alter
  - ➡ Communities and organisations face choices
  - ➡ Need to adapt and manage diverse needs

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