

Climate Change – the (likely) impacts on Flood & Coastal Risk in the Exe Estuary

Martin Davies

Team Leader

EA Flood Risk Mapping and
Data Management

Climate Change or just bad weather?

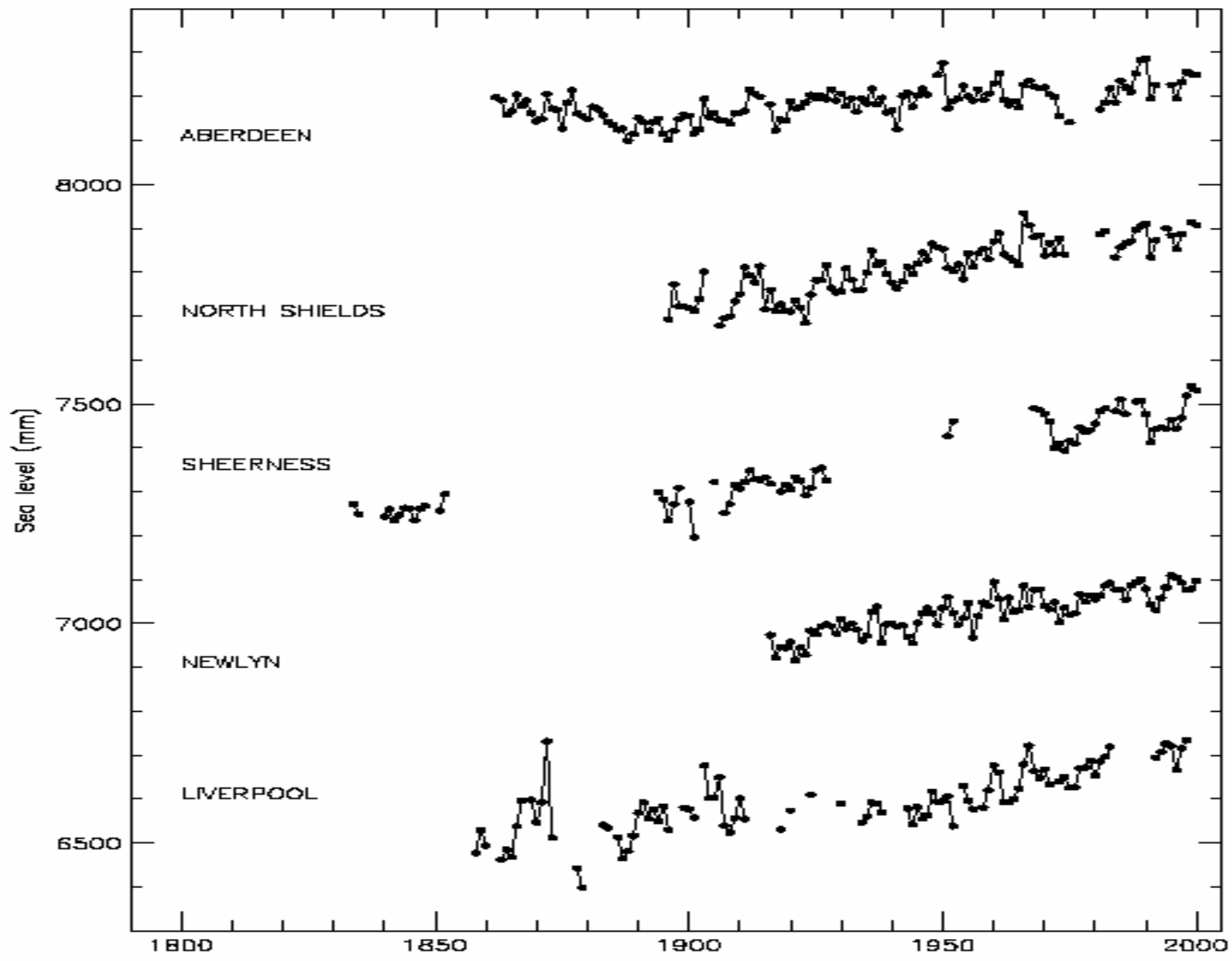


Climate Change – increase in Flood & Coastal Risk

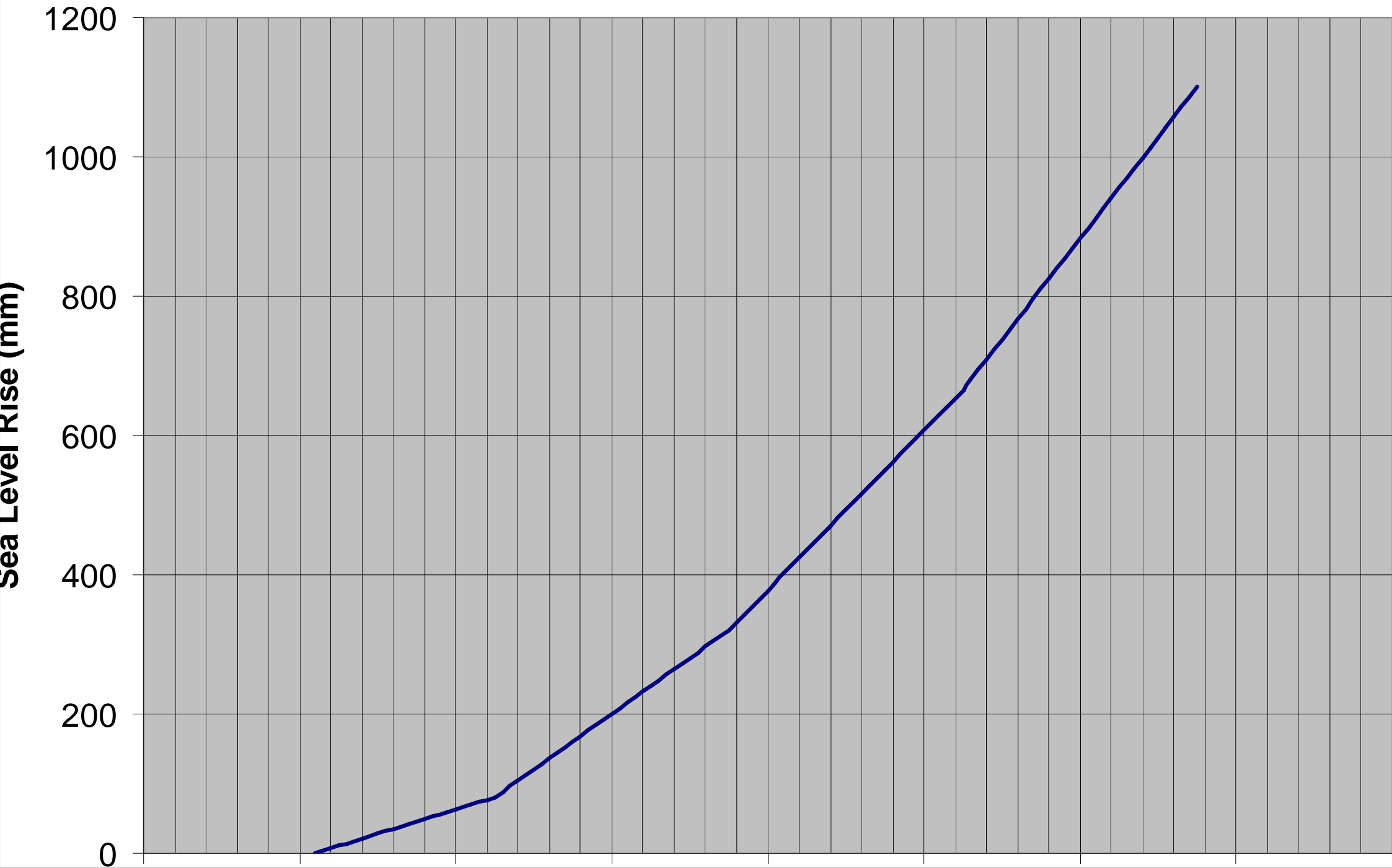
What does an increase in Risk mean?

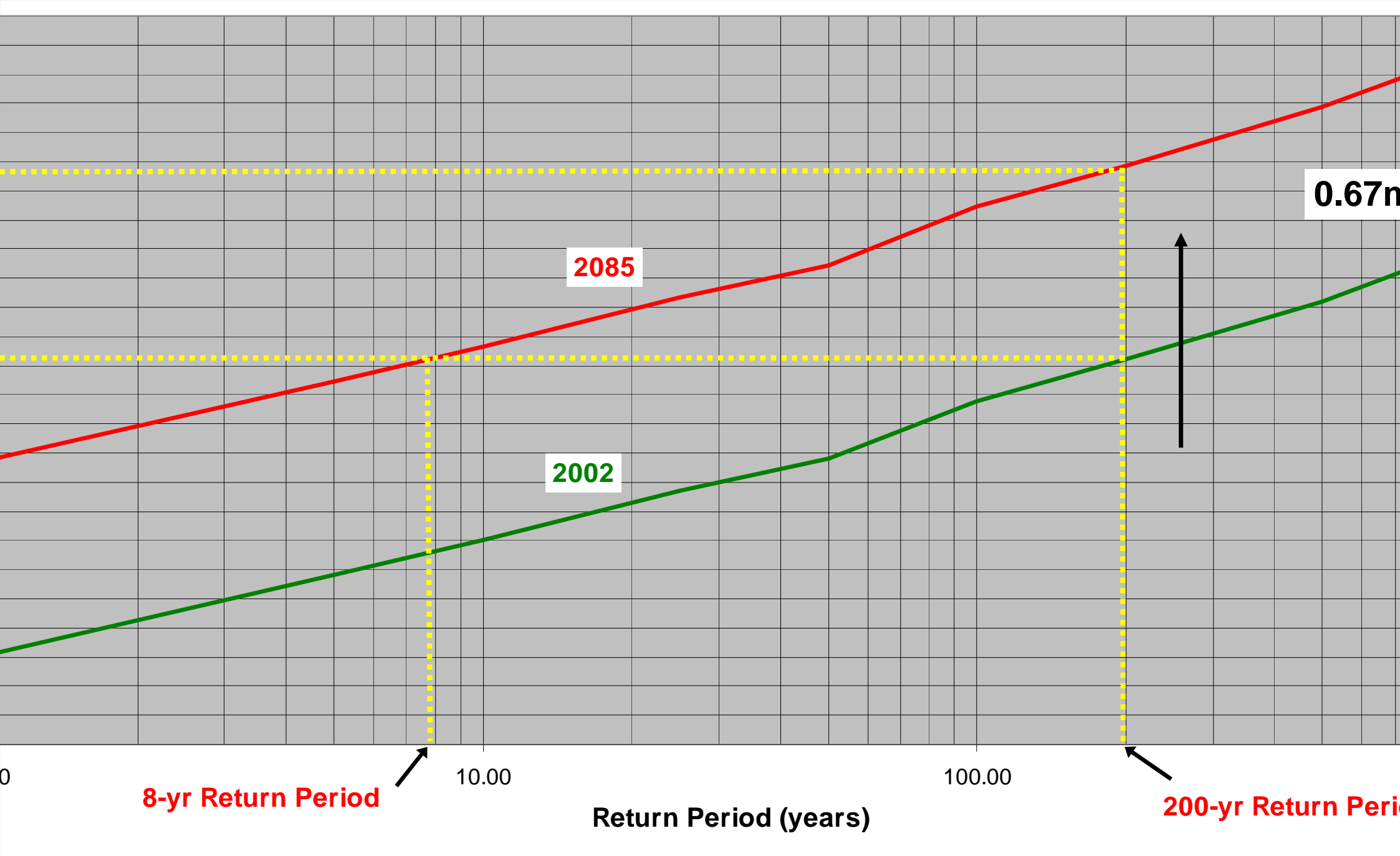
- Increase in frequency of storm events
- Increase in consequence or damages due to storm events & sea level rise

Sea level rise activity mapping

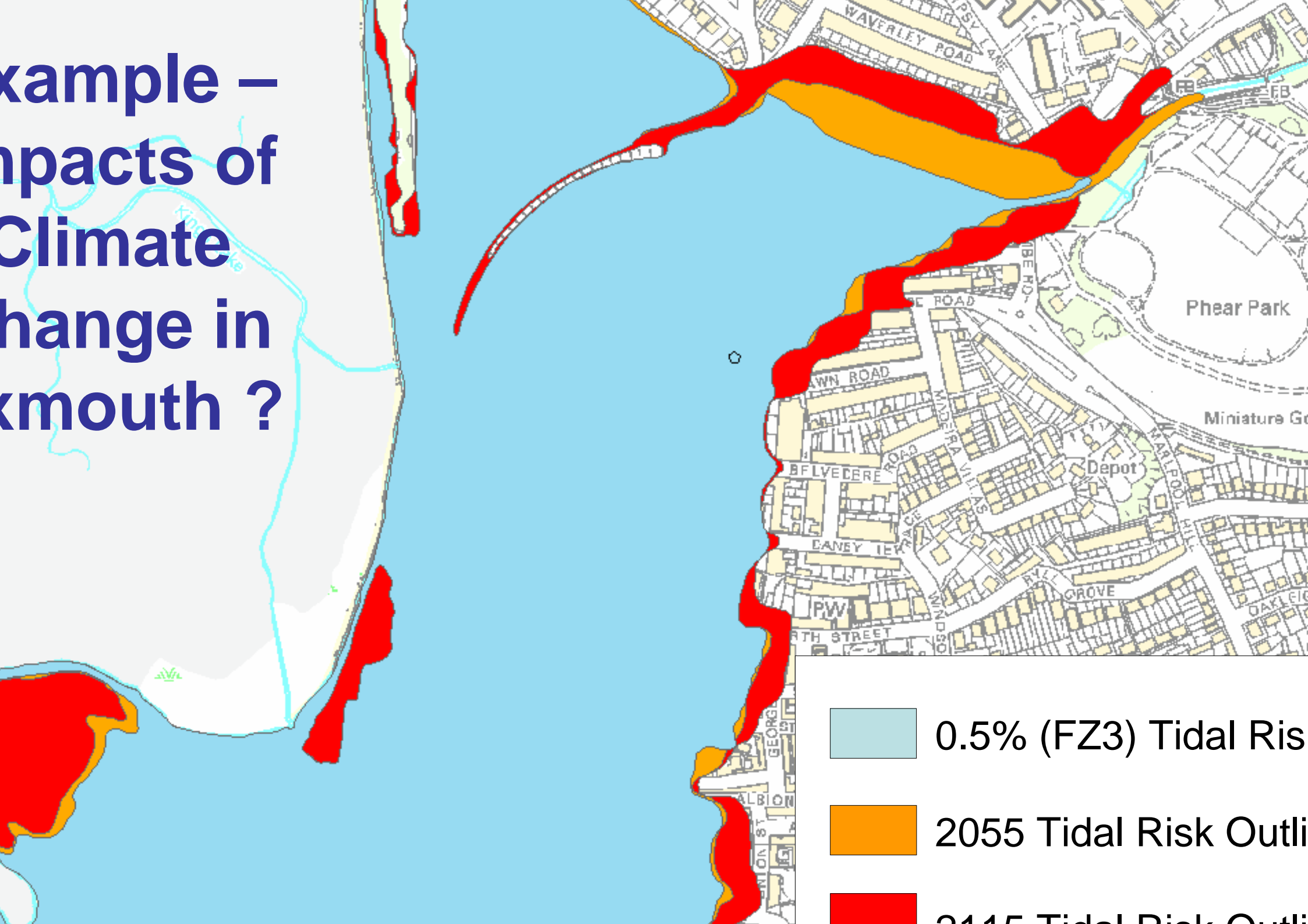


South West Cumulative Sea Level Rise - 2002 Baseline (Defra 2006)





Example – Impacts of Climate Change in Exmouth ?



- 0.5% (FZ3) Tidal Rise
- 2055 Tidal Risk Outline
- 2115 Tidal Risk Outline

Climate Change and flood risk – how it could affect the Exe Estuary

- Areas at Increased Risk
- Greater more frequent storm damage
- Impacts on Infrastructure
- Longer Duration of Flood
- Coastal Squeeze
- More rapid erosion
- Loss or reduction of amenity beach
- Higher Water table
- Increase in river flows; decrease in river flows

Climate Change and flood risk– what are we doing about it?

- Better understanding of the risk
- Strategic Planning
- Sustainable Management
- Raising Awareness
- Identifying Opportunities

Thank You.

Any Questions?

martin.davies1@environment-agency.gov.uk