

Key Regional Findings

Jon Clubb

Regional Climate Change Coordinator

Facts and figures

- 1/6th Yorkshire & Humber at risk of flooding
- Fastest eroding coastline in Europe
- Regional Adaptation Study launched in 2009



Facts and figures

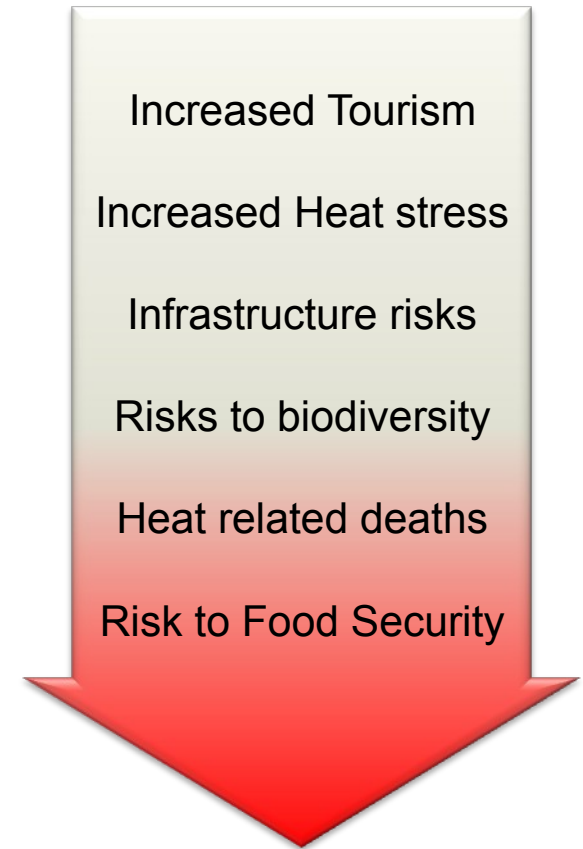
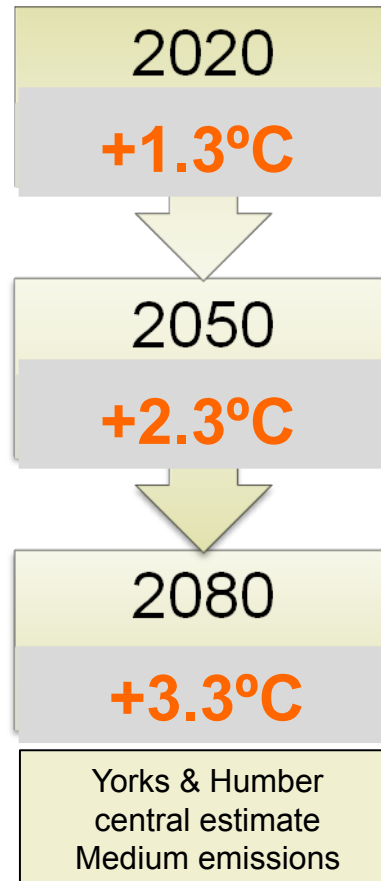
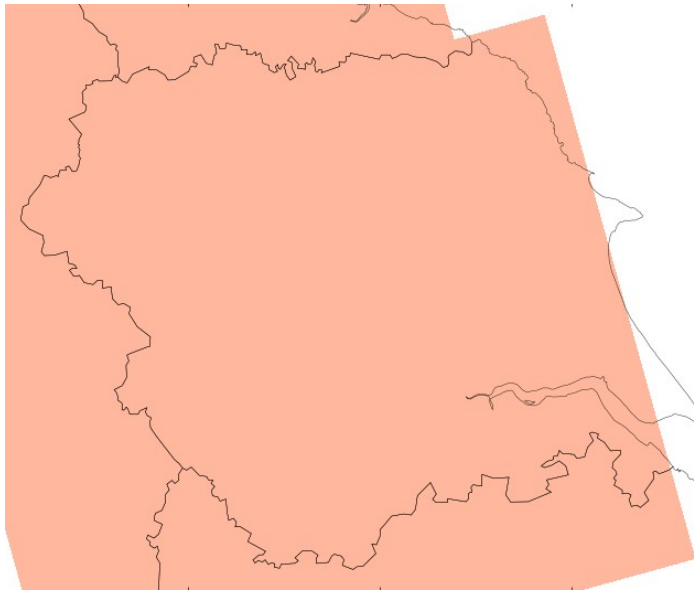
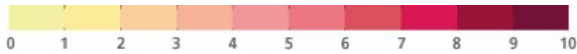


- 90,000 hectares of land at Humber Estuary at risk of flooding

Humber ports

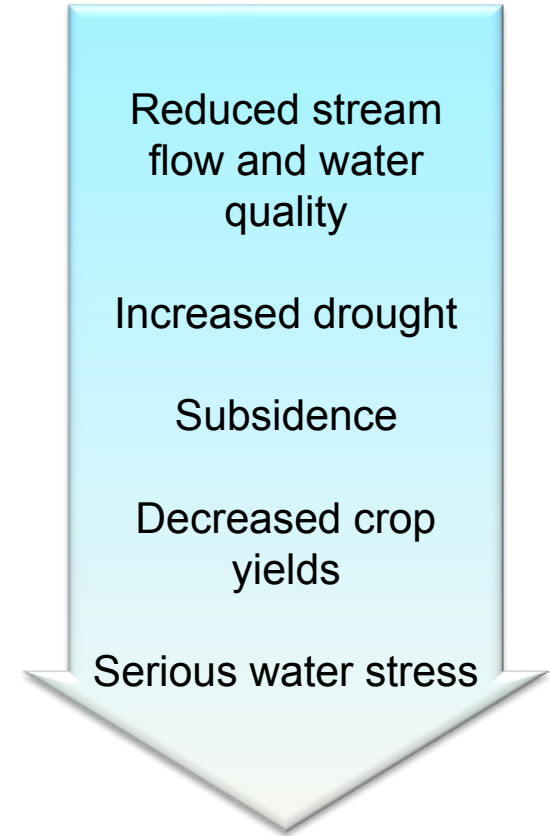
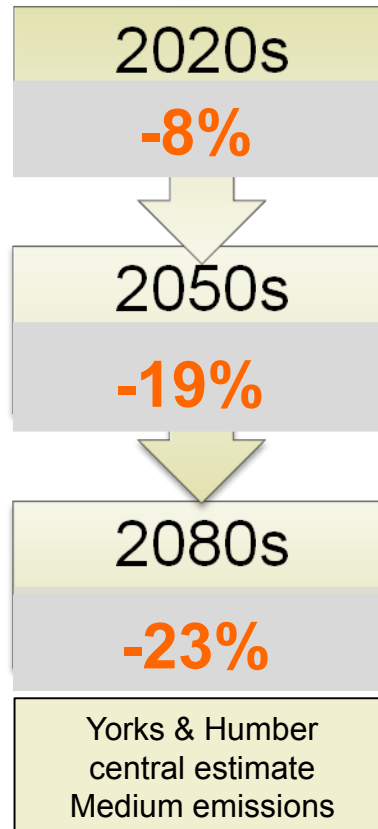
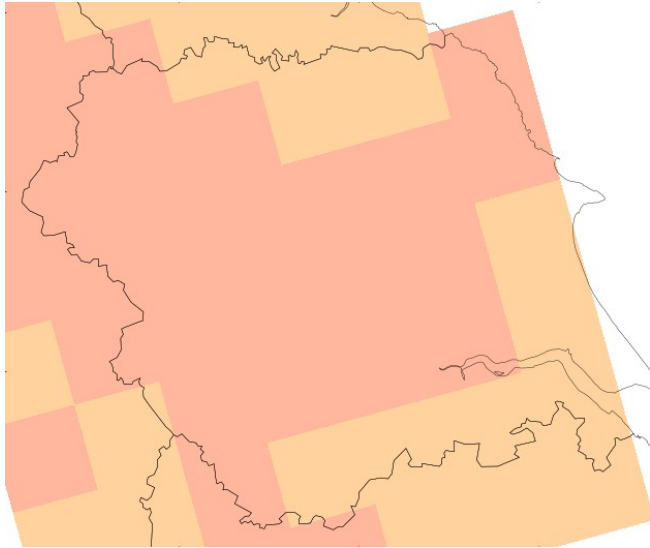
- Largest complex in UK
- 90m tonnes of traffic p.a.
- 16,000 jobs in Hull alone

For summer average temperature, we see significant increases over the decades to 2080s



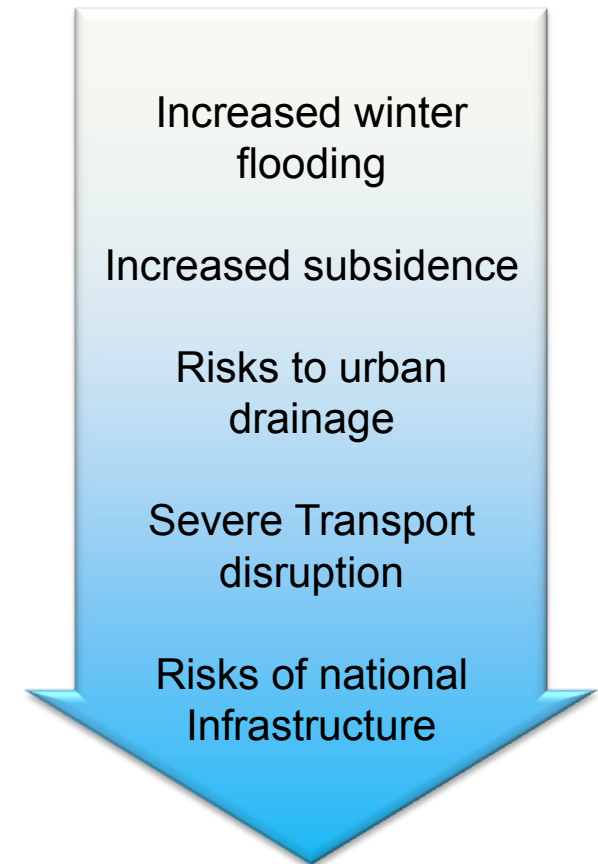
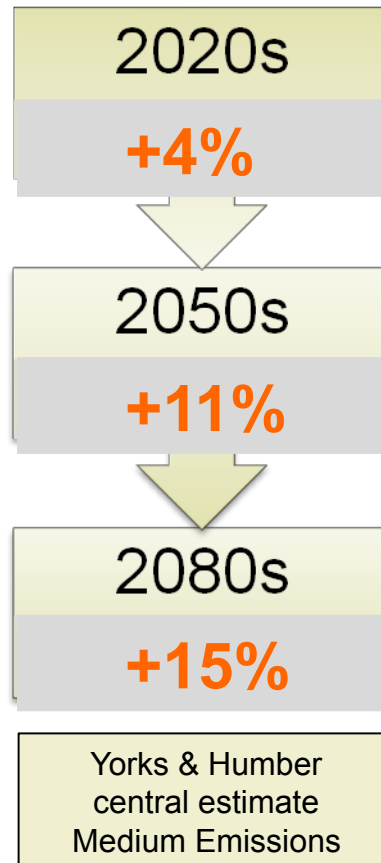
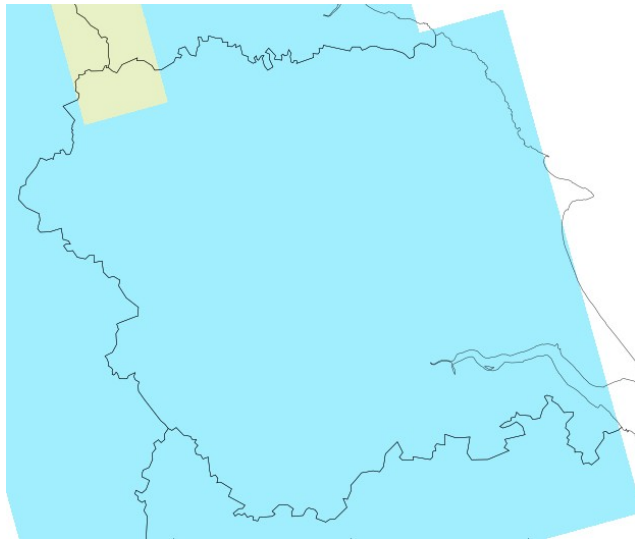
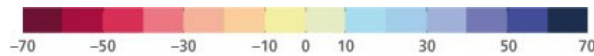
The change for the 2080s is very unlikely to be less than 1.7°C and very unlikely to be more than 5.4°C

For rainfall we could see significant summer decreases



For the 2080s the change is very unlikely to be lower than **-44%** and is very unlikely to be more than **0%**.

For rainfall we see significant winter increases



For the 2080s the change is very unlikely to be lower than +2% and very unlikely to be higher than +33%

Yorkshire & Humber Regional Adaptation Study

- Uses similar methodology to UKCP02
- Findings tested against UKCP09
- www.adaptyh.co.uk



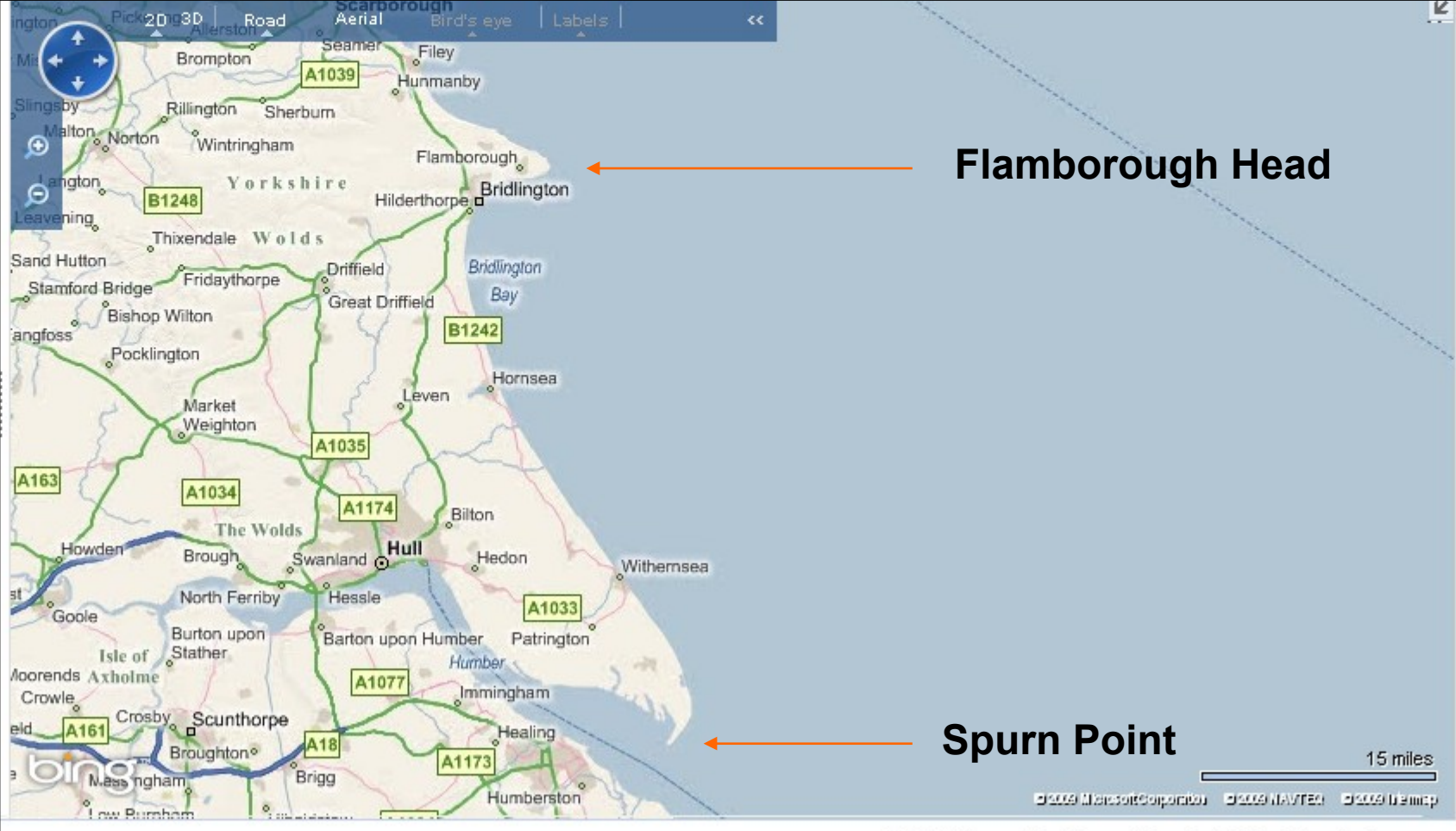
Key findings

- Annual average temp between 1.8°C - 1.9°C
- Summer average temp up between 2.1°C - 2.5°C
- Extreme hot temp up between 2.8°C - 3.2°C
- Winter rainfall up by 12 – 17%
- Summer rainfall down by 22 – 26%
- Winter snowfall down by 54 – 68%
- Mean sea level increase of 0.35 metres... *with more severe surges.*

Impacts and adaptations

Impacts	Adaptation
Flooding	Managed retreat, protect populated areas, information provision.
Coast and estuaries	Allow natural processes, sea defence where sensible.
Biodiversity	Monitor closely and manage Emergency planning for fire risk
Agriculture – crop/yield	Water storage options, New crops.
Tourism and services	Infrastructure, public transport, open space, business opportunities.
Public health	Education, re-align emergency service provision.

East Riding Coastal Zone



Flamborough Head

Spurn Point

Rollback Caravan Parks – East Riding

- East Riding Coastal Zone
- a response to erosion for all forms of development



Ulrome Sands, East Riding



Manor Field District Park, Sheffield



Manor Field District Park, Sheffield

- Sustainable Urban Drainage 'SUDS'
- 1 in 100 year flood basin
- Effective during 2007 floods



Any questions?

Jon Clubb

Regional Climate Change Coordinator

jon.clubb@lgyh.gov.uk

01924 331631