SPF UK Climate Resilience Programme Webinar Series 2021







Timing today



12:00	UK Climate Resilience Programme news	Professor Jason Lowe OBE Head of Climate Services, Met Office
12.05	UK-SSPs: setting out socioeconomic trajectories for climate resilience research	Jon Stenning , Cambridge Econometrics
12.30	Response	Paul Sayers, Sayers and Partners
12.40	Q&A and discussion	Panellists
13.00	End	

Website: https://www.ukclimateresilience.org/





How to engage

- Presentations first then Q&A and discussion
- Post questions in the Q&A box at any time
- Upvote your favourites
- Attendees will remain muted unless enabled to speak by the host
- Webinar (audio and slides) will be shared after the event
- Technical problems chat

Please note: this webinar is being recorded

Twitter: <u>OUKCRP_SPF</u> #UKclimateResil Website: https://www.ukclimateresilience.org/





UK CLIMATI

Programme news



New papers from the programme:



- Department of meteorology, University of Reading UK Centre for Ecology and Hydrology (UKCEH), Wallingfo
- Met Office Hadley Centre, Exeter Priestley International Centre for Climate, University of Leeds
- Corresponding author n.w.arnell@reading.ac.uk

Abstract

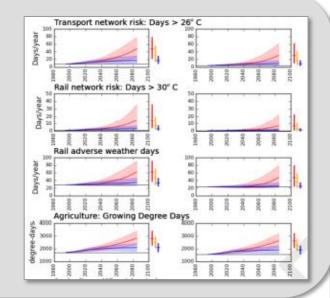
This paper presents a consistent series of policy-relevant indications of changing dimate hazards and resources for the UK, spannie the health, transport, energy-apriculture, flood and water's sectors and based on UKCP18 (limitar projections. In the absence of explicit adaptation, risks will increase across the whole of the UK, but ad different rates and from different starting autosis on different regions. The likelihood of heat extremes affecting health, the road and rail network and crop growth will increase very markedly. Agricultural and hydrological directly fails will and for does wildfire danger. River flood risk increases particularly in the north and west. Demand for cooling energy will increase, but demand for heating energy will directly. Corp growth will increase, but meeting the production of perinnial crops, in general, the risks associated with high temperature extremes will increase the most in warnie giologither and exterts. Flogind, but the raid of increase from a lower base may be greater further north and west. Beducing emissions reduces risks in the long temp turb thas little directly over the meet two or three decades.

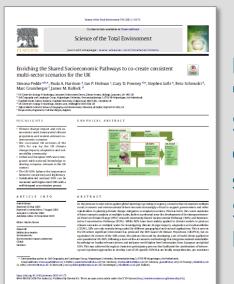
The results provide evidence to support the development of national and local climate and resilienpolicy. Measures the enhance resiling can eneeded alongstop befores to achieve ent tero emissions by 2050. Bealience policy should recepting the variability in change in risk across the UK, and therefore different colar provides. Episitic choices need to be made about 'vents care' emissions scenarios as they can indijuring strongly satimated changes in risk: the increase in risk with RCPLS can be considerably, higher than with a plankow yasching 4°C by 2100.

Key Words

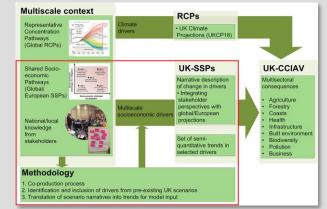
Climate risk, heatwaves, floods, droughts, wildfire, adaptation, resilience, UKCP18

Arnell, N. W., et al. (2020). "Changing climate risk in the UK: a multi-sectoral analysis using policy-relevant indicators." Climate Risk Management: 100265.





Pedde, S., et al. (2021). "Enriching the Shared Socioeconomic Pathways to co-create consistent multisector scenarios for the UK." Science of the Total Environment **756**: 143172.



Programme news



Launch of the urban fact sheets This series of **urban fact sheets**, originally developed for Bristol, have since been produced for: **Belfast, Glasgow, Kirklees, Leeds and London City**

with more to come.

The fact sheets aim to build shared understanding of city specific climate information and promote the robust use of the available UK climate projection information from the Met Office.



UK-SSPs: setting out socioeconomic trajectories for climate resilience research

Jon Stenning, Cambridge Econometrics





UK Research and Innovation



Response

Paul Sayers, Sayers and Partners









Questions, answers, discussion





UK CLIMATE RESILIENCE PROGRAMME

Next webinars:

Wednesday, 27th January, 2021 12.00-13.00

- **Speaker:** Prof Julien Harou (University of Manchester)
- Title:Designing Resilient and Adaptable Water management systems:Lessons from the DRAW-IT project

Wednesday, 10th February, 2021 12.00-13.00

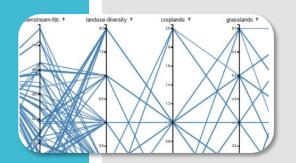
- Speaker: Dr Liz Sharp, University of Sheffield
- Title:The feasibility of domestic rain tanks contributing to urban flood
resilience

Register on our website: https://www.ukclimateresilience.org/news-events/climate-resilience-webinarseries-2020-2021/



Search Met Office

UK CLIMATE RESILIENCE PROGRAMME





Contact details

Website: www.ukclimateresilience.org

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The UK Climate Resilience programme is supported by the UKRI Strategic Priorities Fund. The programme is co-delivered by the Met Office and NERC on behalf of UKRI partners AHRC, EPSRC, ESRC.

