

Communicating the state of the UK Climate

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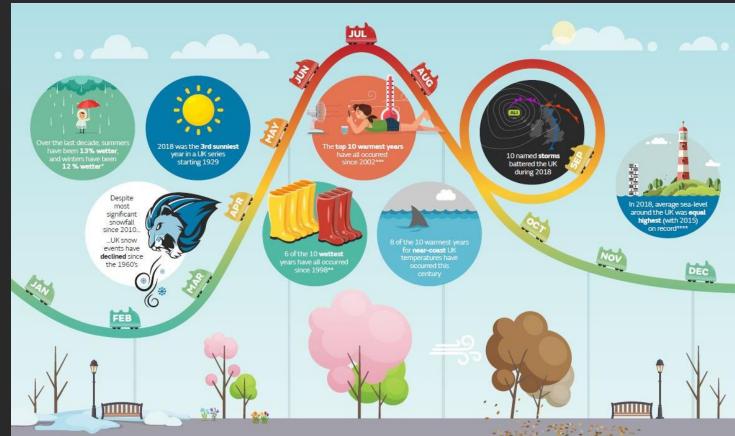
Royal Meteorological Society:

Liz Bentley

Catherine Muller

Wiley:

Beverley Harnett





The short story

Met Office Hadley Centre for climate science and services

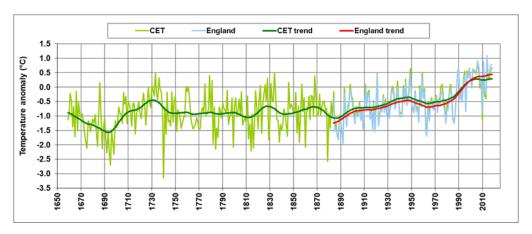
- AND we provide routine climate monitoring.
- BUT our audience is broad and varied, so its challenging to cater for everyone.
- THEREFORE an annual communication of the "State of the UK Climate" provides a powerful opportunity to promote the national climate conversation.

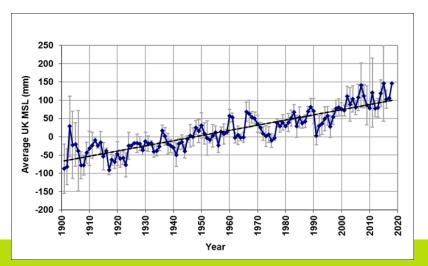


What we're doing.....

- Climate monitoring bulletins
 - Continuous series from 1860

- Climate data series
 - 1659 present
- Observational records







State of the UK Climate

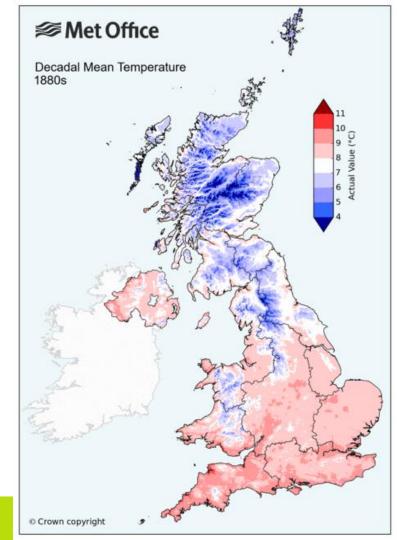
- Up-to-date assessment of UK climate trends, variations and extremes
- Based on climate quality datasets from UK land weather station network
- Internal review only 2014 to 2016
- External review 2017 onwards
- 2018 report new 1km gridded dataset
- Open Access <u>available via CEDA</u> archive





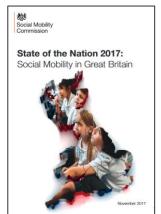
Why we're doing it...

- National Memory
- Weather and climate into context
- UK climate variability and change





State of the ...



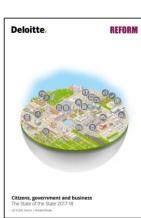
Social mobility



Infrastructure



Health and social care



Citizens, government, business



Birds



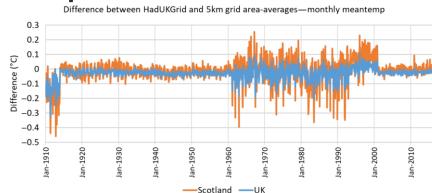
Mental health

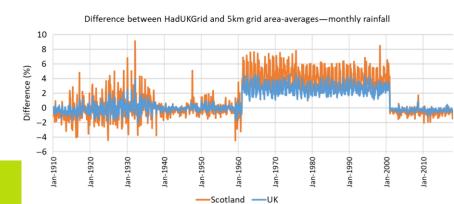


Who we're doing it for... Our peers

- Peer review
 - Thanks to Wiley, Royal Met Soc and peer reviewers.
- Peer reviewed data
 - Hollis et al. Poster P61 session OSA3.2

- Traceable and reproducible
- Open data

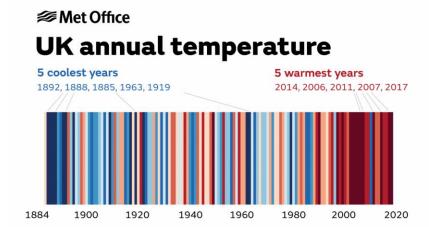






Who we're doing it for...Government

- "Headline messages are particularly useful"
 - Briefings for new ministers
 - 'Top facts' on climate for PM
- "Visualisations are particularly impactful"



"Context is useful but needs right balance"



Who we're doing it for....Public

Press release –headline message…

Print, radio, TV

Other voices help



Climate change: UK's ten warmest years have ALL happened since 2002

O 31 Jul 2019 Last updated at 11:57





UK's 10 hottest years on record have all occurred since 2002





Britain's ten hottest years have ALL occurred since 2002 highlighting the speed of climate change, say scientists

- · Met Office looked at temperature records as far back as 1884, rather than 1910
- · Dr Michael Byrne of St Andrews said: 'The science of climate change now clear'
- · Records now show 1892 as the coldest year, with an average of just over 7C



Themes





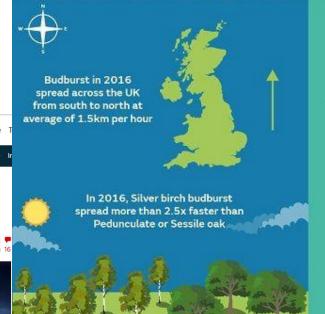


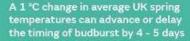
Indicators of climate change

PHENOLOGY INDICATORS

BUDBURST SPREAD

TEMPERATURE INFLUENCE







March temperatures are the biggest influence on budburst date for 9 of 11 species















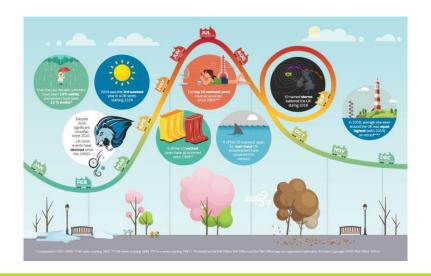


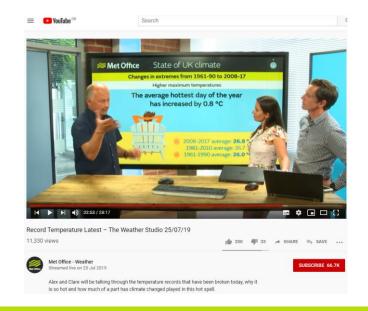




Who we're doing it for... Public

Social Media - power of visualisations







Lessons learned....

- Hierarchy of information. Headline to peer review to data.
- Strong narrative climate story that is local and now.
 - [Repetition]
 - Themes
 - Bridge to wider context
- Supporting voices/experts



From BBC Weather 🤣



Lessons learned...

- Handling errors and clarifications
 - Mistakes in print...
- Communicating uncertainties
- Becoming the story
- Wider context:
 - [Repetition]
 - "So how much of last years was due to climate change?"
 - "That's all very well, but there's nothing we can do about it is there?"
 - "Harry and Meghan plan to have only 2 children should we all commit to that?"





Complementary information

