

AQUAism

Long-Lasting Hydrophilic Cooling Nylon Fabric

Present by **United** Berry



Global Temperature



↑ 1.01°C
Since 1880

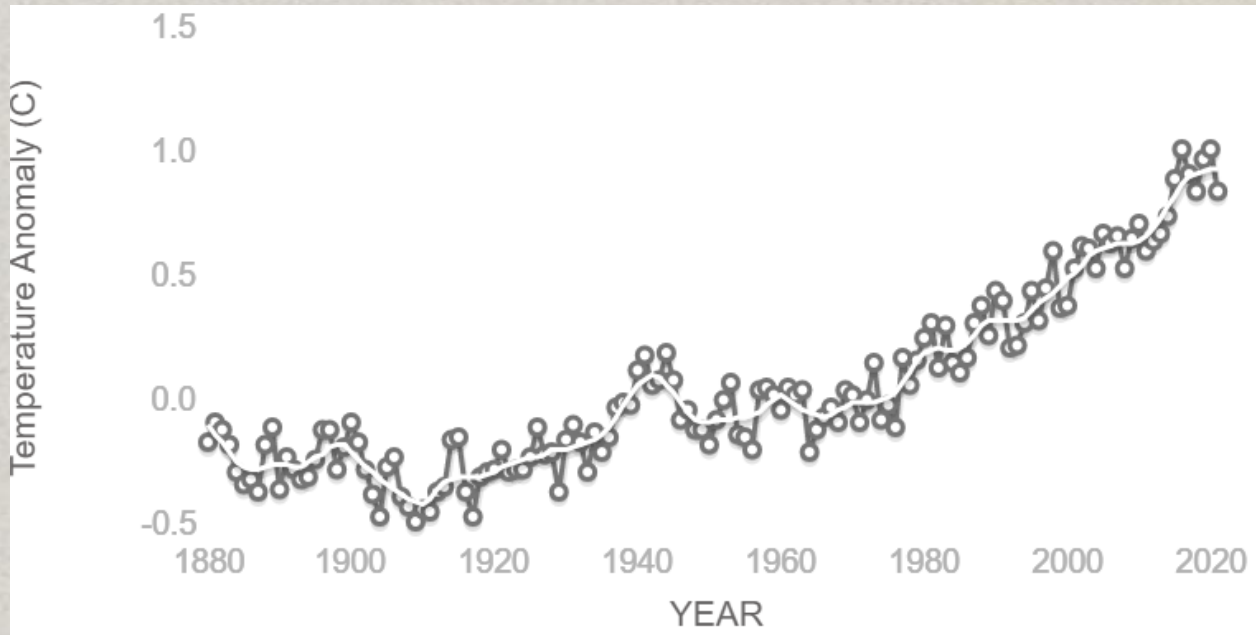
↑ 1.5°C
By 2040

In 2022, record-breaking heat wave shatters across our world and it's likely to be the norm by 2035

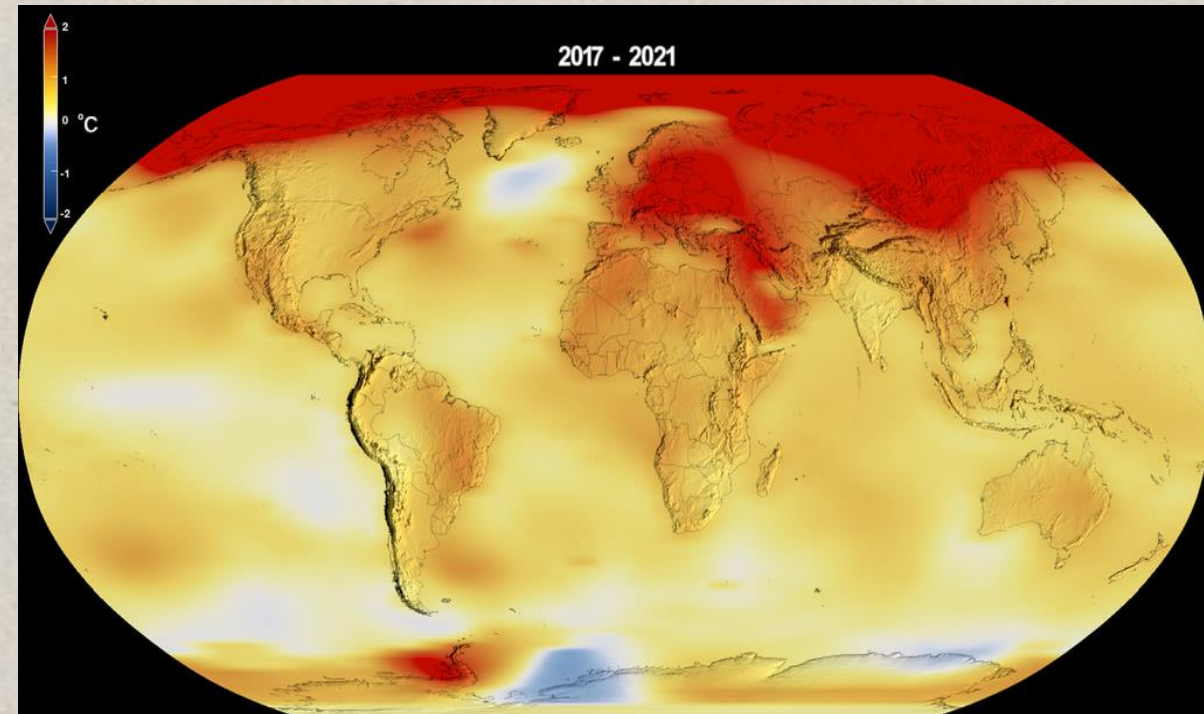
The past eight years are the top eight warmest years since modern record keeping began in 1880.

GLOBAL LAND-OCEAN TEMPERATURE INDEX

THIS FRAME REPRESENTS THE 5 YEARS GLOBAL TEMPERATURE ANOMALIES FROM 2017-2021



Source: climate.nasa.gov

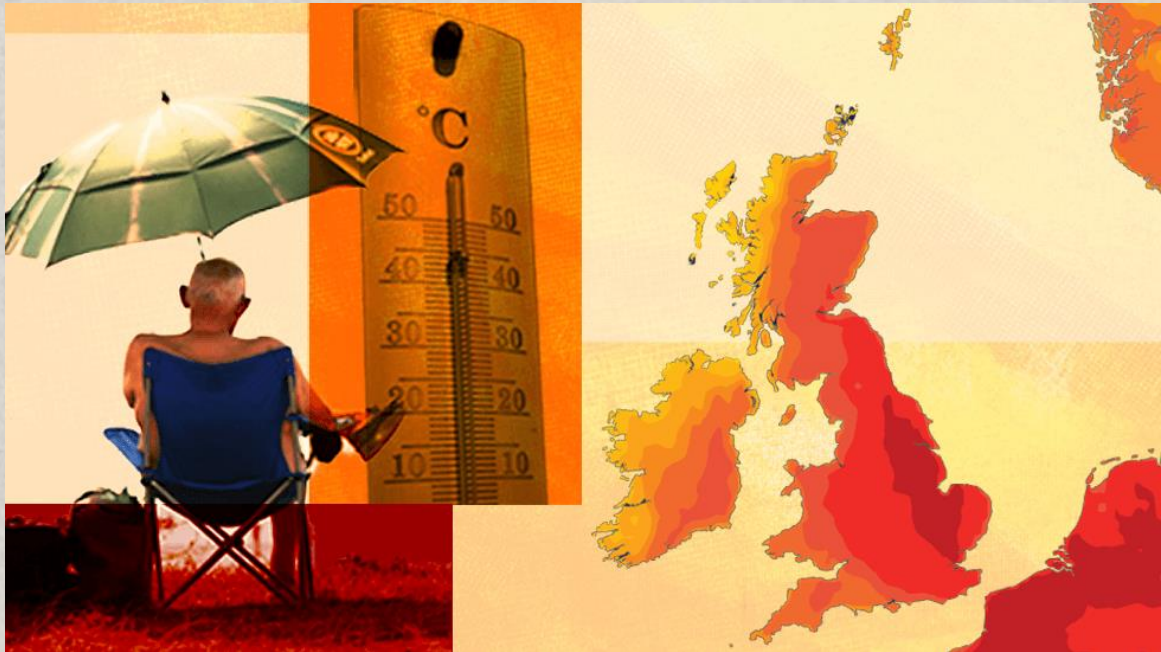


Heatwave: The UK and Europe's record temperatures in maps and charts

By The Visual Journalism Team

BBC News

19 July 2022



Temperatures higher than 40C have been recorded in the UK for the first time

Heatwave broke UK temperature records

40.3C | New UK record reached at **Coningsby, Lincolnshire**



5 other places reached 40C

40.2C St James's Park, London

40.2C Heathrow, London

40.1C Gringley On The Hill, Nottinghamshire

40.1C Kew Gardens, London

40C Northolt, west London

28 further places broke the previous record of **38.7C**

New Wales and Scotland records

37.1C Hawarden, Clwyd

35.1C Floors Castle, Kelso

Getty

Source: Met Office provisional figures

BBC

Hundreds of temperature records broken as heat wave scorches the U.S.

Updated Jul 25, 2022 - [Energy & Environment](#)

[Julia Shapero](#)



Children cool off in the Changing Spaces fountain at Rockefeller Center during a heat wave on July 23 in New York City. Photo: Alexi Rosenfeld/Getty Images

AQUAism- Long-Lasting Hydrophilic Cooling Nylon Fabrics

Features:

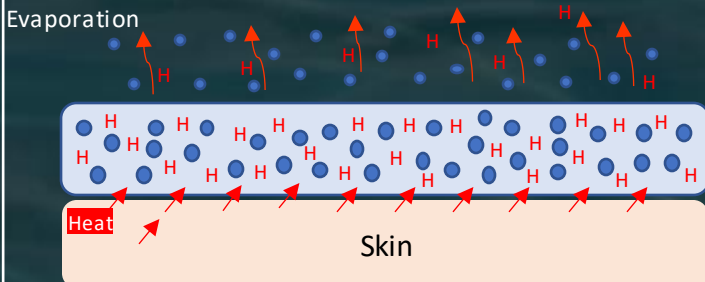
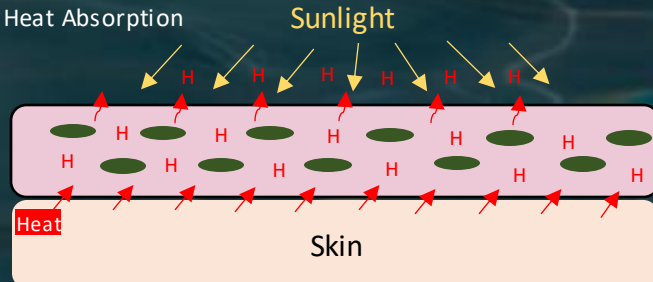
- Excellent moisture and sweat absorption
- Better moisture absorption / desorption capability than regular nylon fabrics
- Nice and long-lasting cool feeling
- Smooth and comfy hand feel
- Excellent air permeability
- UV protection

Moisture regain: AQUAism vs Conventional Nylon

	20°C 65% Humidity	34°C 90% Humidity
Conventional Nylon	3.5-4.2%	5.5-5.8%
AQUAism	4.2-5%	8% or more

AQUAism is nylon yarn-based fabric with hydrophilic monomer onto nylon molecular to combine the moisture absorption of cotton and the moisture desorption of nylon.

AQUAism vs Mineral/ Jade power added fabrics

	AQUAism	Mineral/ Jade power added fabrics
Medium	Moisture	Mineral/ Jade powder
Heat transfer mechanism	Heat conduction, Heat accumulation, Evaporation	Heat conduction
Features	Moisture absorption, Desorption, Long-lasting cooling	Instant cooling
Occasion	Both Indoor & Outdoor	Indoor Only
Schematic	<p>Evaporation</p>  <p>Heat</p> <p>Skin</p>	<p>Heat Absorption</p> <p>Sunlight</p>  <p>Heat</p> <p>Skin</p>

Instant Cool Feeling (Q-max) Test Result

S4297- Flat Jersey

0.174 W/ cm²

Requirement: ≥ 0.130 (W/cm²)

D3598- Double Knit

0.177 W/ cm²

Requirement: ≥ 0.130 (W/cm²)

1 Cool Feeling Test (FTTS-FA-019, Version 3.0, Refer To KES-F7 Thermo Labo II):

Instant Cool Feeling (Q-max)	0.174 W/cm ²
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Remark : 1. Temperature Difference ΔT : 10°C
2. Top Plate: 35°C
3. Water Box: 25°C
4. Sample Surface Tested: Skin Contact Side
5. Conditioning: Temperature of 20°C \pm 2°C and Relative Humidity of 65 \pm 5% RH, 24 Hours

Stay Cool & Be Cool

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