

IMPACTS OF CLIMATE CHANGE AT +3°C WARMING

EVENT	IMPACT	REFERENCE
16) Crop yield change	1817 million people exposed (406 vulnerable)	Byers, E., Gidden, M., Leclère, D., Balkovic, J., Burek, P., Ebi, K., ... & Johnson, N. (2018). Global exposure and vulnerability to multi-sector development and climate change hotspots. Environmental Research Letters, 13(5), 055012.
17) Annual hot days >30°C per year in the British Isles	Increase by 2 days per year	Teichmann, C, et al. (2018) Avoiding extremes: Benefits of staying below +1.5C compared to +2.0C and +3.0C global warming, Atmosphere
18) Summer maximum daily temperature in B.I	Increase by 2.5°C	Dosio, A. & Fischer, E. M. (2017) Will Half a Degree Make a Difference? Robust Projections of Indices of Mean and Extreme Climate in Europe Under 1.5C, 2C, and 3C Global Warming, Geophysical Research Letters
19) Habitat degradation	1357 million people exposed (248 vulnerable)	Byers, E., Gidden, M., Leclère, D., Balkovic, J., Burek, P., Ebi, K., ... & Johnson, N. (2018). Global exposure and vulnerability to multi-sector development and climate change hotspots. Environmental Research Letters, 13(5), 055012.
20) Heatwave event exposure	1707 million people exposed and vulnerable (7909 exposed)	Byers, E., Gidden, M., Leclère, D., Balkovic, J., Burek, P., Ebi, K., ... & Johnson, N. (2018). Global exposure and vulnerability to multi-sector development and climate change hotspots. Environmental Research Letters, 13(5), 055012.
21) Area burned by wildfires in average Mediterranean summer	increase by 97%	Turco, M. et al. (2018) Exacerbated fires in Mediterranean Europe due to anthropogenic warming projected with nonstationary climate-fire models, Nature Communications. Data provided by Marco Turco of the University of Barcelona
Arctic sea ice	Probability of an ice-free Arctic summer in any one year : 63%	Sigmond, M. et al. (2018) Ice-free Arctic projections under the Paris Agreement, Nature Climate Change
Annual tropical nights (Tmin>20°C) in British Isles	Increase by 3	Teichmann, C, et al. (2018) Avoiding extremes: Benefits of staying below +1.5C compared to +2.0C and +3.0C global warming, Atmosphere
Winter frost days in B.I	Decrease by 13 days	Dosio, A. & Fischer, E. M. (2017) Will Half a Degree Make a Difference? Robust Projections of Indices of Mean and Extreme Climate in Europe Under 1.5C, 2C, and 3C Global Warming, Geophysical Research Letters
Winter minimum temperature in B.I	Increase by 3.2°C	Dosio, A. & Fischer, E. M. (2017) Will Half a Degree Make a Difference? Robust Projections of Indices of Mean and Extreme Climate in Europe Under 1.5C, 2C, and 3C Global Warming, Geophysical Research Letters
Winter maximum daily rainfall increase over B.I.	14%	Dosio, A. & Fischer, E. M. (2017) Will Half a Degree Make a Difference? Robust Projections of Indices of Mean and Extreme Climate in Europe Under 1.5C, 2C, and 3C Global Warming, Geophysical Research Letters