Robust attribution and projection of extreme heat events to human influence on the climate

Nicholas J. Leach

St. Cross College University of Oxford

A thesis submitted for the degree of Doctor of Philosophy

Trinity 2022

Abstract

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Institutional

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List of Abbreviations

SST Sea surface temperatures.



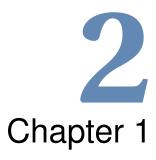
Chapter description.

¹with the author contributions as follows.

2 1.1. Section

1.1 Section

— author



Chapter description.

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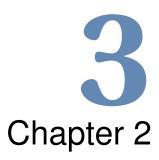
Leach, N. J., Li, S., Sparrow, S., van Oldenborgh, G. J., Lott, F. C., Weisheimer, A., & Allen, M. R. (2020). **Anthropogenic Influence on the 2018 Summer Warm Spell in Europe: The Impact of Different Spatio-Temporal Scales**. *Bulletin of the American Meteorological Society*, **101**(1), S41-S46. https://doi.org/10.1175/BAMS-D-19-0201.1

Contents

¹with the author contributions as follows.

2.1. Section

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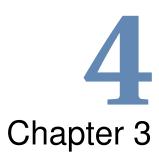
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6 3.1. Section

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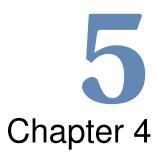
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Contents

¹with the author contributions as follows.

4.1. Section

4.1 Section



Chapter description.

¹with the author contributions as follows.

5.1. Section

5.1 Section



Chapter description.

¹with the author contributions as follows.

12 6.1. Section

6.1 Section

Appendices

The first kind of intellectual and artistic personality belongs to the hedgehogs, the second to the foxes

. . .

— Sir Isaiah Berlin [1]

References

[1] Isaiah Berlin. *The Hedgehog and the Fox: An Essay on Tolstoy's View of History*. English. Ed. by Henry Hardy. 2nd. Princeton University Press, June 2013.