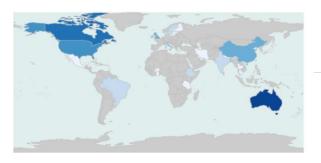




What we know, what we don't know, and what we assume about the impact of climate change on mental health and well-being in Europe

– a narrative literature review

Weronika Kałwak



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Stressed about climate change? Eight tips for managing eco-anxiety





Where? Jagiellonian University in Kraków (Poland), Institute of Psychology, Department of Psychological Prevention and Psychotherapy, Qualitative Research Lab







The (EnvironMental) Team and collaborators: Karolina Bonarska (XR), Zuzanna Garncarek, Krzysztof Hankus, Marta Pawlikowska, Helena Walasz, Anna Wojewoda, Vanessa Weihgold (IZEW, Tuebingen), dr Joanna Grzymała-Moszczyńska (Dept. of Social Psychology, Institute of Psychology, JU) dr Magdalena Budziszewska (University of Warsaw), dr Marta Łukowska (University of Silesia in Katowice, Nyeleni Polska)

- → impact of climate change on mental health and well-being in (Middle) Europe (and PL)
- → ethical aspects of climate emotions and mental health support in the times of climate crisis
- → psychological situation of climate activists
- → polycrisis and mental health of emerging adults (COVID-19, war in Ukraine, climate)























Take home message(s)

- 1. The impact of climate change on mental health is regionally specific and should be studied in contextualized way.
- 2. (At the background of other regions) Europe may be specific in terms of the impacts of climate change on mental health. There is, however, virtually no research on mental health consequences of climate change in Euruppe.
- 3. The impact of climate change on mental health in Europe is not limited to *eco-anxiety* (mediated impacts). Assuming in the literature that we're dealing mainly or only with mediated impacts has some post-colonial underpinnings.
- 4. We need to study indirect mental health impacts of climate change specific to the temperate climate zone in order to address mental health of actual populations of concern.

Anthropogenic global climate change has a disruptive influence over ecosystems and communities around the world. It is a threat to natural environment, to society, economy, politics, and **human health -** (*THE CLIMATE CRISIS*) -

- → life-thretaening natural disasters and extreme weather events (e.g. hurricanes, floodings)
- → heat-waves (e.g. cardiovascular diseases)
- → altered patterns of ecosystems that generate sanitary risk (e.g. vector-borne diseases)
- → difficulties in access to basic living resources (e.g. fresh water and high quality food)
- → deteriorated mental health and well-being









> Int Rev Psychiatry. 2014 Aug;26(4):415-22. doi: 10.3109/09540261.2014.925851.

Climate change: the next challenge for public mental health?

François Bourque 1, Ashlee Cunsolo Willox

- → many questions, little answers
- → majority of literature: opinion papers, literature reviews, calls to research



Therapists' experience of climate change: A dialectic between personal and professional

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Jules F. B. Silva 	Jennifer Coburn 	First published: 19 January 2022 | https://doi.org/10.1002/capr.12515 | Citations: 1
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Open Access | Published: 16 February 2021

Negative emotions about climate change are related to insomnia symptoms and mental health: Cross-sectional evidence from 25 countries

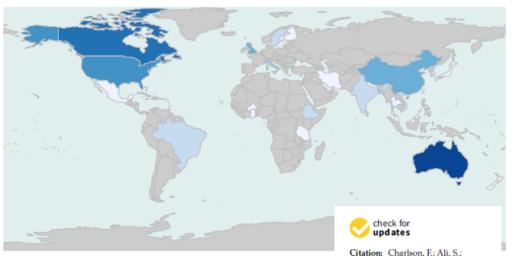
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<u>Charles Adedayo Ogunbode</u>  

, <u>Ståle Pallesen</u>, ... <u>Michael J. Lomas</u> + Show authors

<u>Current Psychology</u> (2021) | <u>Cite this article</u>

7754 Accesses | 11 Citations | 127 Altmetric | <u>Metrics</u>
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- → impact on mental health (like the climate change) presented as a global problem
- → we assume a universal character of knowledge **BUT** we need a contextualized one for action and prevention



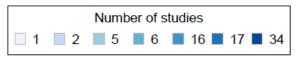


Figure 2. Map of included studies.

two reports on the topic in Europe: based on studies done outside of Europe



Climate change impacts on mental health in Europe

An overview of evidence March 2022



The Lancet Planetary Health

Volume 5, Issue 12, December 2021, Pages e863-e873



Articles

Benmarhnia, T.; Pearl, M.; Massazza,

Climate Change and Mental Health:

A Scoping Review. Int. J. Environ. Res.

A.; Augustinavicius, J.; Scott, J.G.

Public Health 2021, 18, 4486. https://doi.org/10.3390/ijerph

18094486

Climate anxiety in children and young people and their beliefs about government responses to climate change: a global survey

Caroline Hickman MSc ^{a, †} A 🖾, Elizabeth Marks ClinPsyD ^{b, †}, Panu Pihkala PhD ^c, Prof Susan Clayton PhD ^d, R Eric Lewandowski PhD ^e, Elouise E Mayall BSc ^f, Britt Wray PhD ^{g, h}, Catriona Mellor MBChB ⁱ, Lise van Susteren MD ^{j, k}

the paper: global perspective adopted in studies the map: origins of most empirical research on the topic (not many btw) are out of Europe (Australia, Canada, USA, China – other climate zones)

→ based on that, are we able to gain specific understanding necessary to act?

Home > European Child & Adolescent Psychiatry > Article

Review | Open Access | Published: 26 August 2020

Report of the intergovernmental panel on climate change: implications for the mental health policy of children and adolescents in Europe—a scoping review

Vera Clemens [™], Eckart von Hirschhausen & Jörg M. Fegert

European Child & Adolescent Psychiatry 31, 701–713 (2022) Cite this article

7197 Accesses | 25 Citations | 73 Altmetric | Metrics



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Lawrance, E. L., Thompson, R., Newberry Le Vay, J., Page, L., & Jennings, N. (2022). The impact of climate change on mental health and emotional wellbeing: a narrative review of current evidence, and its implications. International Review of Psychiatry, 34(5), 443-498.

Why it is so difficult to study empirically?

CLIMATE CRISIS is a part of **POLYCRISIS**

MENTAL HEALTH what is it?

ETIOLOGY of DETERIORATED MENTAL HEALTH (individual, community, epidemiological level)



DISCOURSE ON (DETERIORATED) MENTAL HEALTH IN THE CLIMATE CRISIS





CLIMATE CHANGE KNOWLEDGE (incl. academic knowledge) and COMMUNICATION is politically involved in mitigation and adaptation of climate change

adverse changes to environment change our prereflective way of being in a [natural] world

Droughts in Australia and India – well-documented (indirect) impact on mental health

Int J Environ Res Public Health. 2022 Jul; 19(13): 7855.

Published online 2022 Jun 27. doi: 10.3390/ijerph19137855

PMCID: PMC9266200

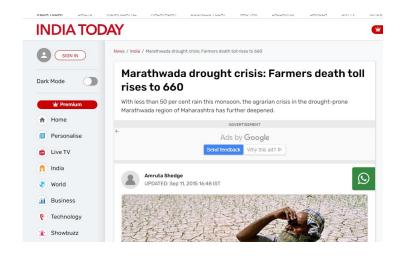
PMID: 35805514

Climate Change, Drought and Rural Suicide in New South Wales, Australia: Future Impact Scenario Projections to 2099

Ivan C. Hanigan 1,2,* and Timothy B. Chaston 2,3

outcomes. We estimated the numbers of suicides attributable to drought under possible climate change scenarios for the future years until 2099, based on the historical baseline period 1970–2007. Drought and rural suicide data from the Australian state of New South Wales (NSW) were analyzed





Original Article | Published: 26 January 2018

Effects of Drought and Flood on Farmer Suicides in Indian States: An Empirical Analysis

Yashobanta Parida [™], Devi Prasad Dash, Parul Bhardwaj & Joyita Roy Chowdhury

Economics of Disasters and Climate Change 2, 159–180 (2018) | Cite this article

1825 Accesses **30** Citations Metrics

Increasing droughts in Poland – no data on linked-to-drought mental health and suicides among farmers in Europe

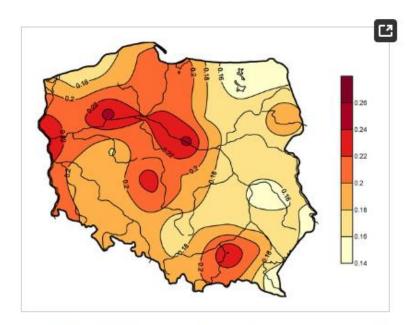
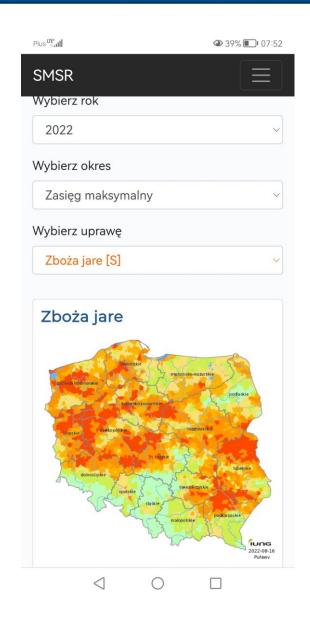


Figure 10. Isarithms of the coefficient of variation of yearly precipitation totals in Poland in 2001–2018.

Ziernicka-Wojtaszek A, Kopcińska J. Variation in Atmospheric Precipitation in Poland in the Years 2001–2018. *Atmosphere*. 2020; 11(8):794.



Climate change threatens mental health of vulnerable communities

Kim Krisberg

MEDIATED IMPACT

The Nation's Health April 2020, 50 (2) S7;











CLIMATE CHANGE AWARENESS



- knowledge, education, climate change attitudes, personal values, political views

ENGAGEMENT IN CLIMATE ACTION

- Does it positively/negatively impact mental health and well-being?

EXPOSURE TO INVIRONMENTAL COMMUNICATION AND (SOCIAL) MEDIA MESSAGES

- The more we know, are we stressed less or more?



CLIMATE EMOTIONS

- eco-anxiety, climate depression, eco-trauma, climate grief



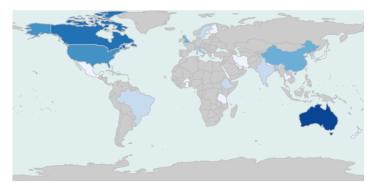




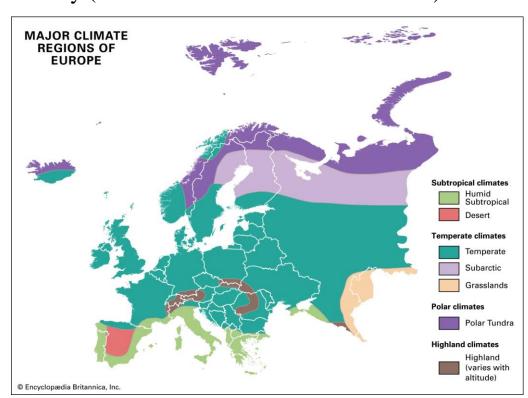
Figure 2. Map of included studies.

→ most research done in the regions deeply touched by climate change-related environmental degradation and extreme weather events (e.g., Australian wildfires and droughts, American hurricanes, Alaskian communities experiencing the sea ice melting)

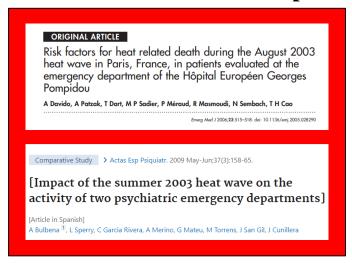
There are more studies origin. in subtropical and arctic regions of Europe (and in UK) with no empirically-based understanding of the specific impacts in the temperate climate zone (charact. by less extreme weather and slowly stepping changes).

Why we need knowledge specific to Europe?

→ in (Middle) Europe actual consequences of climate change are not yet as tangible and severe, every-day consequences of climate crisis for most of the people are not yet a lived reality (but: *increase in sub-extreme events*)



What we know about Europe?



indirect impact of heatwaves is well-documented in Europe; there is virtually no research on direct impacts of mental health of: drought, flooding, bushfire, forced migration, loss of income empirical studies origin. in Europe concern mainly mediated impacts





Vulnerable groups (groups of concern) in European region

→ Populations of concern in terms of mental health and wellbeing usually identified in the "so far intact" regions (Global North) – vulnerable to mediated impacts:

- youth (children, teenagers, young adults)
- parents (and possible parents)
- individuals with preexisting mental health difficulties (whistleblowers)
- mental health practicioners
- environmentalists (climate activists, journalists)
- academics (students and teachers, environmental scientists)

There seems to be an assumption that mediated mental health impacts (*eco-anxiety kind*) are specific for European societies (almost no research and reflection on specificity of indirect impacts)



A case of Poland – characterisic for a temperate climate zone (a significant part of Europe)

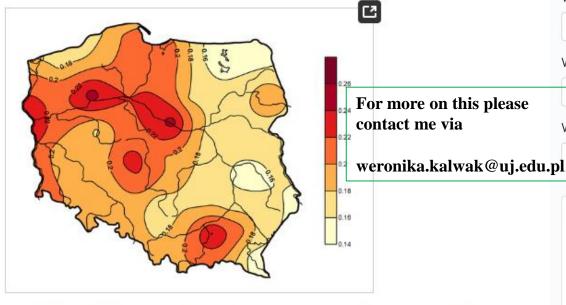


Figure 10. Isarithms of the coefficient of variation of yearly precipitation totals in Poland in 2001–2018. Ziernicka-Wojtaszek A, Kopcińska J. Variation in Atmospheric Precipitation in Poland in the Years 2001–2018. *Atmosphere*. 2020; 11(8):794.

- → IPCC: water scarcity in Central and Western Europe
- → agricultural drought (increasing variety in temperature and precipitation, floodings, change in seasonality)
- → relative loss on income, (psychological) loss of stability and predictability, altered relationship to land and weather etc.



Plus LTE*

Eco-anxiety as an umbrella term and a (politically loaded) performative (Kalwak & Weihgold, in press).

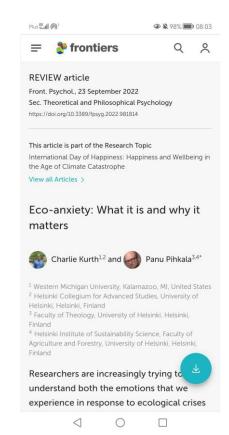
→ Finally, we don't know what is really hidden inside it.

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Are there (*indigenous*) **traditional communities** in Europe impacted by or vulnerable to climate change?

→ Finally, is it just to think only about them in terms of *loss of* connection to land, and about ourselves in terms of educated environmental concern?





Thank you!

Looking forward to hear your questions and comments.

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