

Ein globaler Blick auf psychische Gesundheit: *Klimawandel und andere Krisen*

Thomas J. Müller
Privatklinik Meiringen & Universität Bern



CLIMATE CHANGE

The Coming Collapse

Two expeditions to Antarctica's Thwaites Ice Shelf have revealed that it could splinter apart in less than a decade—allowing a vast glacier behind it to slide into the sea

By Douglas Fax

Photograph by Elizabeth Rush

THE FRONT FACE of the Thwaites Ice Shelf towers up to 400 meters above the sea. The slab of floating ice is rapidly weakening.

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'Bathtub ring' mineral deposits are visible due to extraordinarily low water levels at the Elephant Butte Reservoir in New Mexico
Mario Tama/Getty Images

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EARTH

World's "Third Pole" Is Melting Away

Even if ambitious climate targets are met, Himalayan glaciers could lose a third of their volume

By Chelsea Harvey, E&E News on February 4, 2019

megadrought America?

part of global climate pattern
some regional climates for:



Aerial view the Hindu Kush mountain range in Afghanistan. Credit: Getty Images

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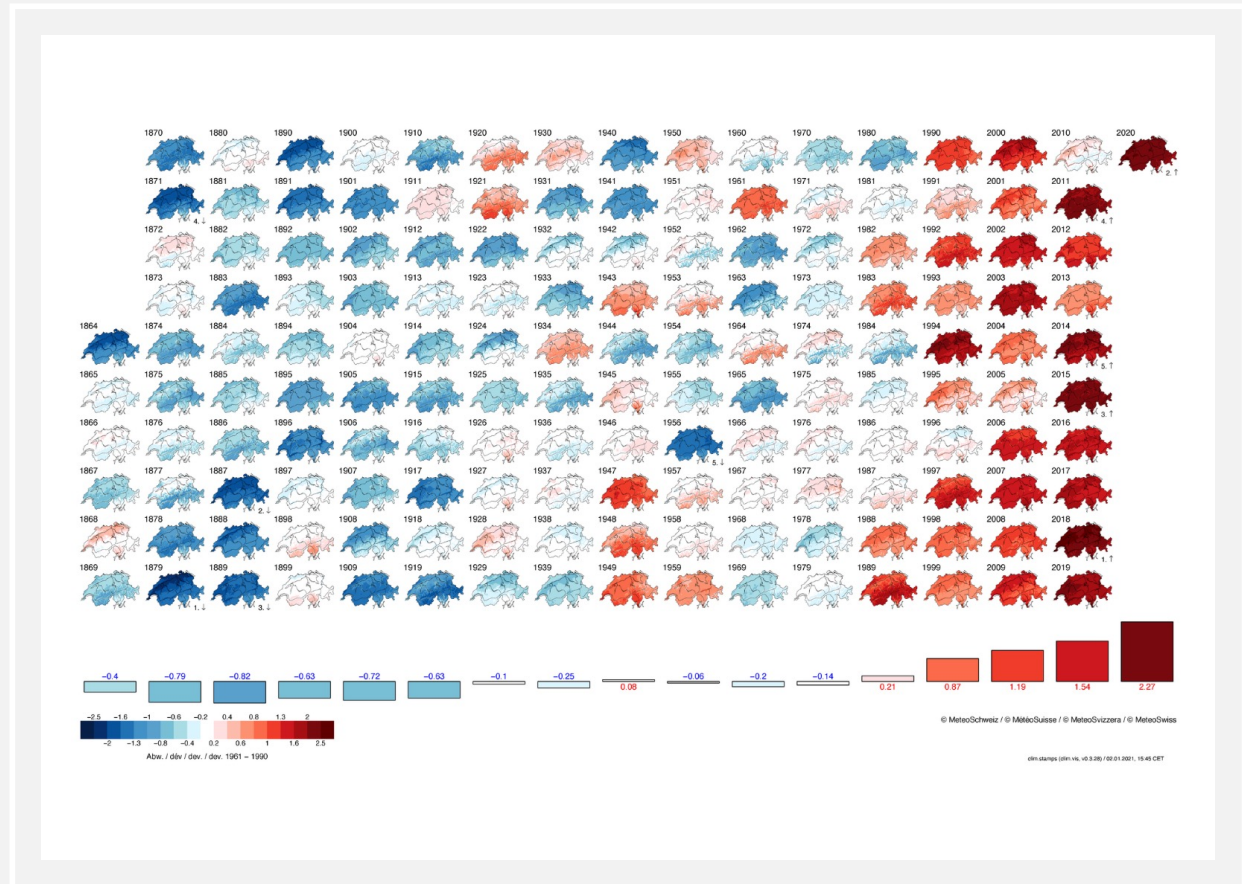
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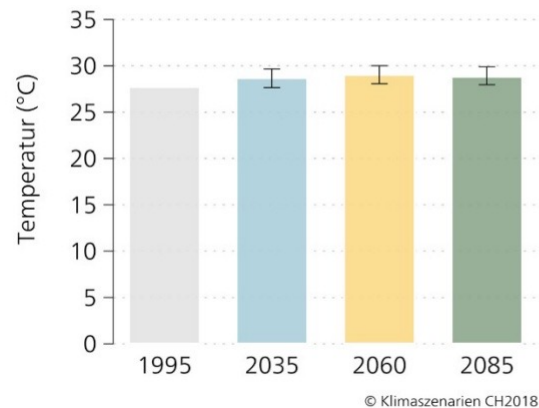
KLIMAWANDEL IN DER SCHWEIZ: DURCHSCHNITTSTEMPERATUR

- *Quelle:* Bundesamt für Meteorologie und Klimatologie MeteoSchweiz

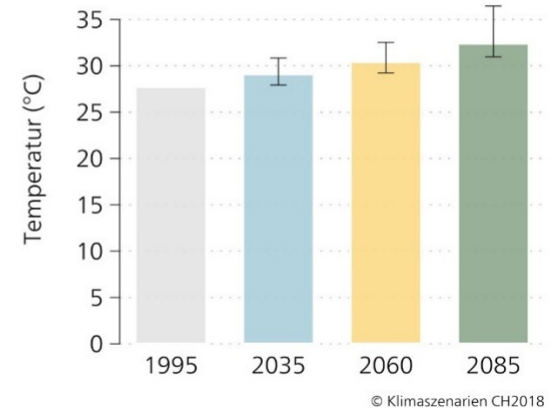


- Abbildung 1: 30-jährige Mittel der mittleren maximalen Temperatur über 14 Tage an der Station Zürich / Fluntern für verschiedene Zeitperioden. Abgebildet sind die Werte für ein Szenario mit Klimaschutz (RCP2.6, links) und für ein Szenario ohne Klimaschutz (RCP8.5, rechts). Grafik: MeteoSchweiz

Mittlere maximale Temperatur über 14 Tage
Zürich / Fluntern
RCP2.6



Mittlere maximale Temperatur über 14 Tage
Zürich / Fluntern
RCP8.5



Alessandro Della Valle / Keystone

Heisser Herbst – warum das Wetter wieder einmal verrücktspielt

Dieser Monat wird als wärmster Oktober seit Messbeginn 1864 abschneiden. Grund dafür ist ein stabiles Tief über dem Atlantik – letztlich aber der Klimawandel, denn alle Jahreszeiten werden wärmer.

Andreas Frey · 29.10.2022, 21.45 Uhr

 Hören  Merken  Drucken  Teilen

Spätherbst? Dieser Oktober fühlt sich noch immer nach Spätsommer an, nur das fallende Laub erinnert an die eigentliche Jahreszeit. 25 Grad dürften an diesem Wochenende erneut erreicht werden, in den Bergen herrscht bestes Wanderwetter bei idealer Fernsicht und schweisstreibenden Temperaturen.



Tracking the connections between public health and climate change

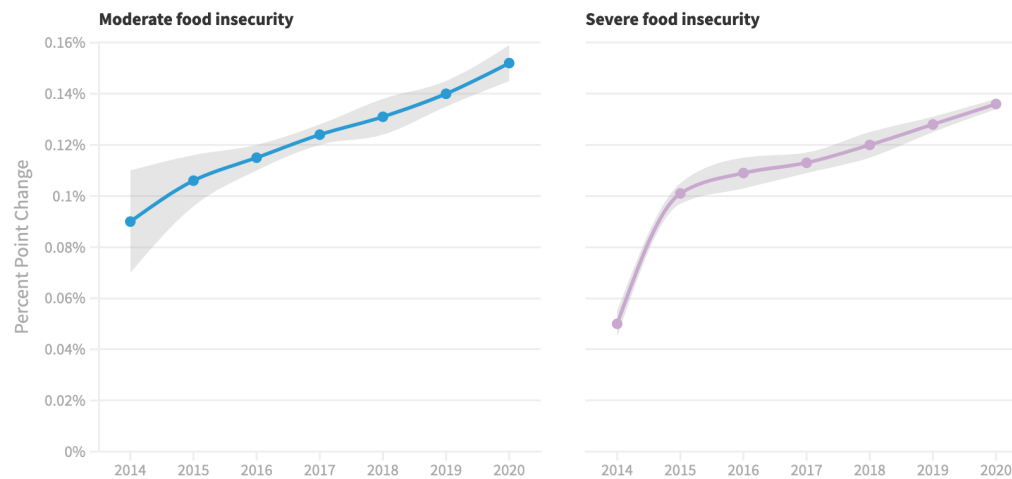
LANCET COUNTDOWN 2022

<https://www.lancetcountdown.org/>

Impact of Heatwave Days on Food Insecurity

Change in the percentage of people reporting moderate to severe food insecurity due to heatwave days (percentage point change) occurring during four major crop (maize, rice, sorghum, and wheat) growing seasons

■ Moderate Food Insecurity ■ Severe Food Insecurity

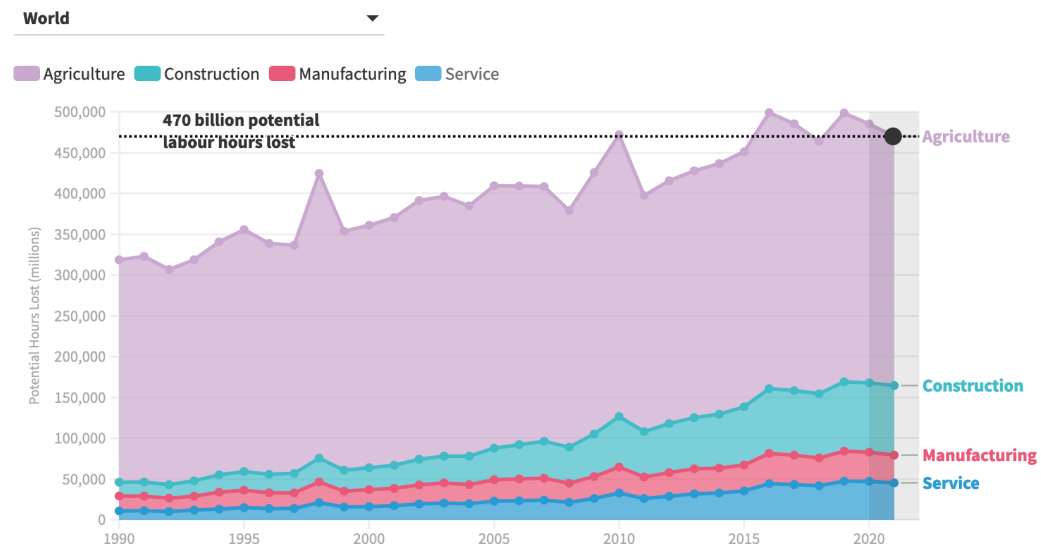


Please reference the 2022 Report of the Lancet Countdown if using this data •
For a full description of the indicator, see the 2022 report of the Lancet Countdown at lancetcountdown.org



Potential Hours of Labour Lost Due to Exposure to Heat

Potential labour hours lost annually due to heat exposure by sector and country, HDI group, or WHO region, 1990-2021



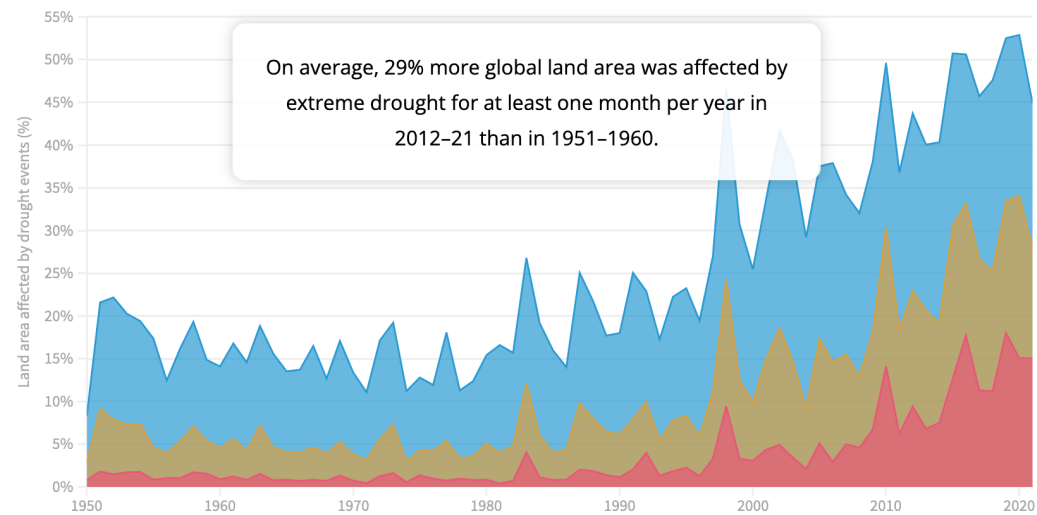
Please reference the 2022 Report of the Lancet Countdown if using this data •
For a full description of the indicator, see the 2022 report of the Lancet Countdown at lancetcountdown.org



Land Affected by Droughts

Percentage of land area affected by drought events per year, classified by the number of months in drought

Months of Drought: 1 month 3 months 6 months



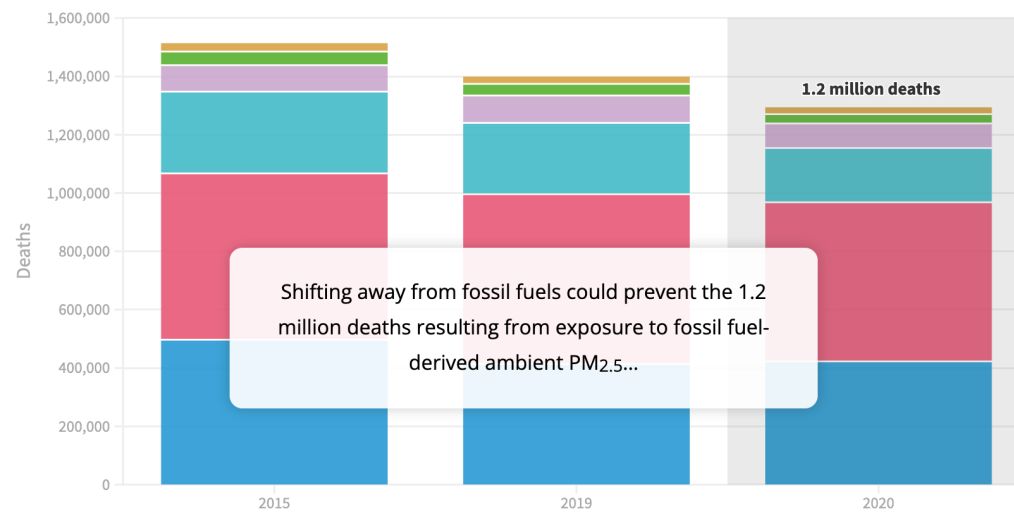
Source: Please reference the 2022 Report of the Lancet Countdown if using this data -
For a full description of the indicator, see the 2022 report of the Lancet Countdown at [lancetcountdown.org](https://www.lancetcountdown.org)



Deaths from Ambient Air Pollution

Mortality attributable to exposure to PM_{2.5} ambient air pollution, by WHO region

Western Pacific South-East Asia Europe Eastern Mediterranean Americas Africa



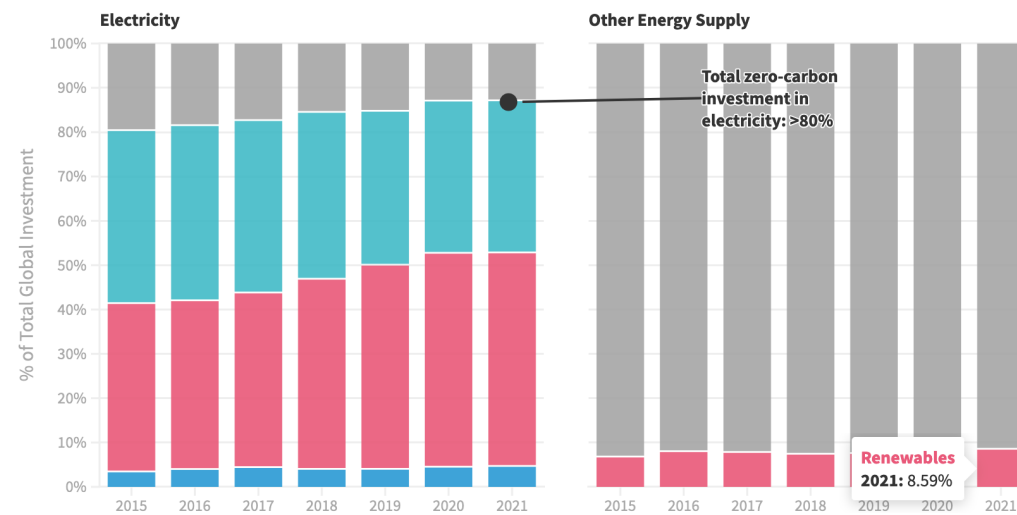
Please reference the 2022 Report of the Lancet Countdown if using this data •
For a full description of the indicator, see the 2022 report of the Lancet Countdown at [lancetcountdown.org](https://www.lancetcountdown.org)



Investment in Electricity and Other Energy Supply

Percent of global investments in energy by energy supply and end-use efficiency and by sector of use, 2015-2021

■ Nuclear ■ Renewables ■ Electricity Networks & Storage ■ Fossil Fuels

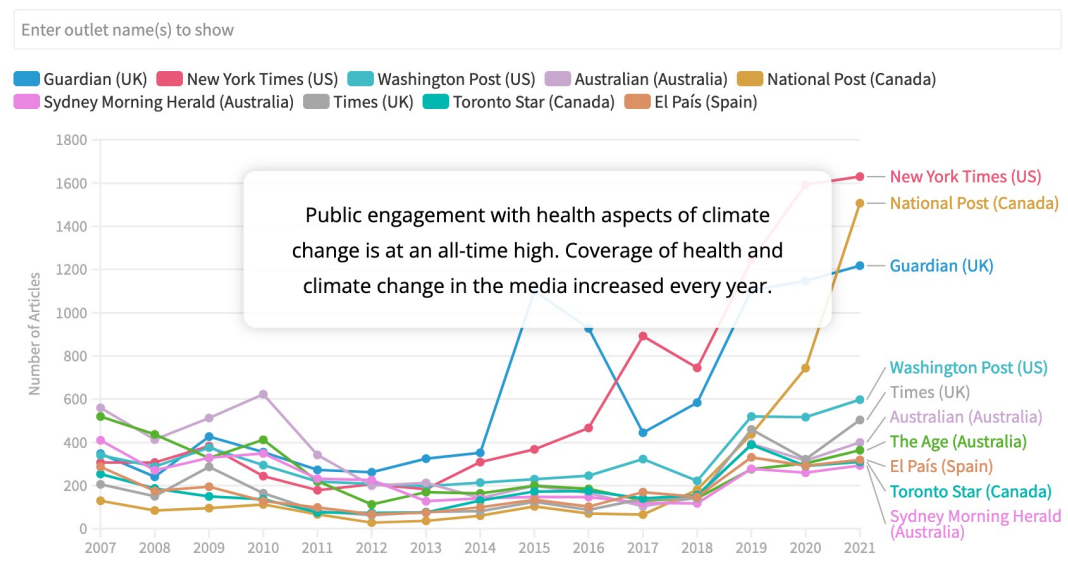


Please reference the 2022 Report of the Lancet Countdown if using this data •
For a full description of the indicator, see the 2022 report of the Lancet Countdown at lancetcountdown.org



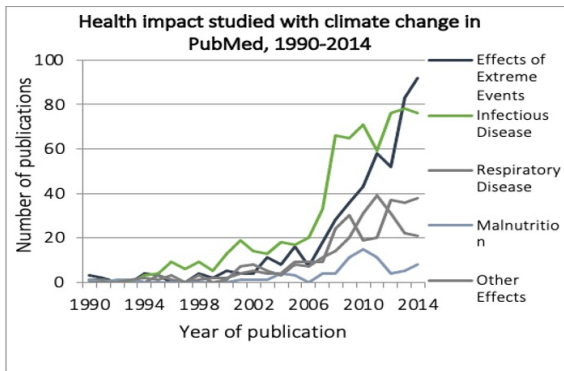
Coverage of Health and Climate Change in News Outlets Around the World

Number of news articles covering health and climate change, 2007-2021

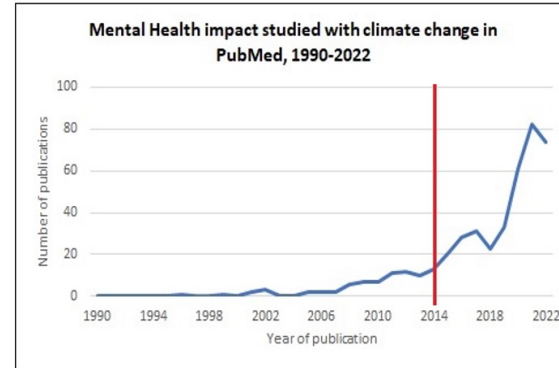


Please reference the 2022 Report of the Lancet Countdown if using this data •
 For a full description of the indicator, see the 2022 report of the Lancet Countdown at [lancetcountdown.org](https://www.lancetcountdown.org)

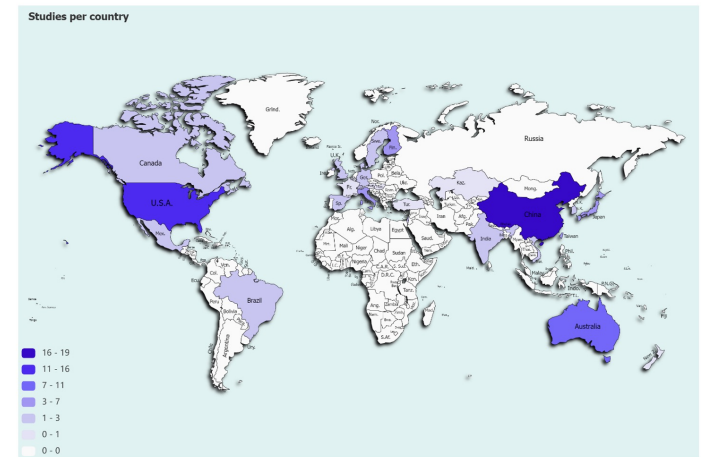




Graphic 1. Source: Verner et. al. (2016) (9).



Graphic 2. Source: authors. Date of research: 09-14-2022. Red bar delineates until when (2014) the studies from Verner et. al. (2016) were searched, for comparison.



Map 1. Studies divided per country. The more intense the color, the higher the number of publications in the corresponding countries. White coloration represents that no article was published. Created with: paintmaps.com

A systematic review of the impact of Climate Change on health services demand worldwide due to psychiatric conditions

OR

A systematic review of the impact of Climate Change on mental health services worldwide

Julia F. Corvetto¹, Ammir Y. Helou², Rainer Sauerborn^{1°}, **Thomas Müller**[†], Peter Dambach^{1°}

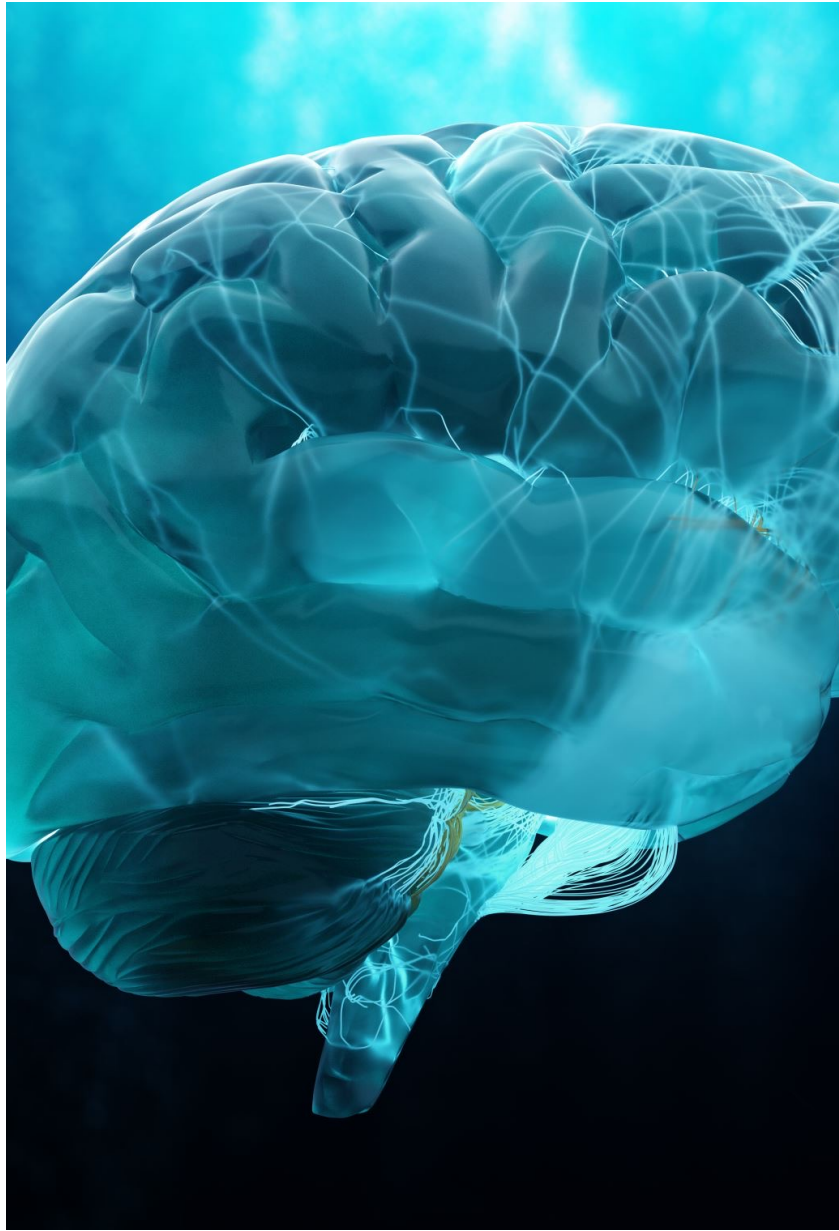
¹ Heidelberg Institute of Global Health (HIGH), Heidelberg University Hospital, Heidelberg University, Germany

² Anatomy Department of the Biomedical Science Institute, São Paulo University, Brazil

³ TRC, University Hospital of Psychiatry, University of Bern, Bern, Switzerland

[°] equal last authorship

... WAS MACHT DIE FORSCHUNG?



AUSWIRKUNGEN AUF DIE MENTALE GESUNDHEIT

Aggression, Hass...

Hass und Hitze

- > Tweets in sechs verschiedenen Sprachen: Norwegisch, Schwedisch, Dänisch, Deutsch, Italienisch und Griechisch
- > Am wenigsten im Temperaturbereich zwischen 5°C und 11°C
- > Unabhängig von der Region → Grenzen der Adaptionsfähigkeit?

Stechemesser, Annika, et al. "Strong increase of racist tweets outside of climate comfort zone in Europe." Environmental Research Letters 16.11 (2021): 114001.

Step 1: Data Procurement

Identify tweets containing slur words.

Add tweets containing expressions that are offensive in combination.

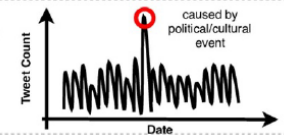
Obtain data sets in seven different uniquely spoken languages covering 2012 to 2018.

Step 2: Filtering and Aggregation

Remove duplicates.

Aggregate to daily level.

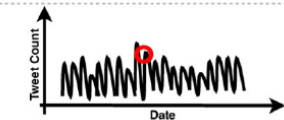
Detect non-temperature-related spikes using z-score outlier detection.



Identify the five most common words tweeted on these days omitting search words and stop words.

politics
steal
law
unfair
demonstration

Remove all tweets containing these words and update tweet count.



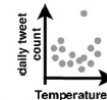
Step 3: Weighting

Multiply each tweet by the number of likes it received.

Check "viral" tweets manually and exclude if not racist/xenophobic.

Step 4: Tweets and Temperature

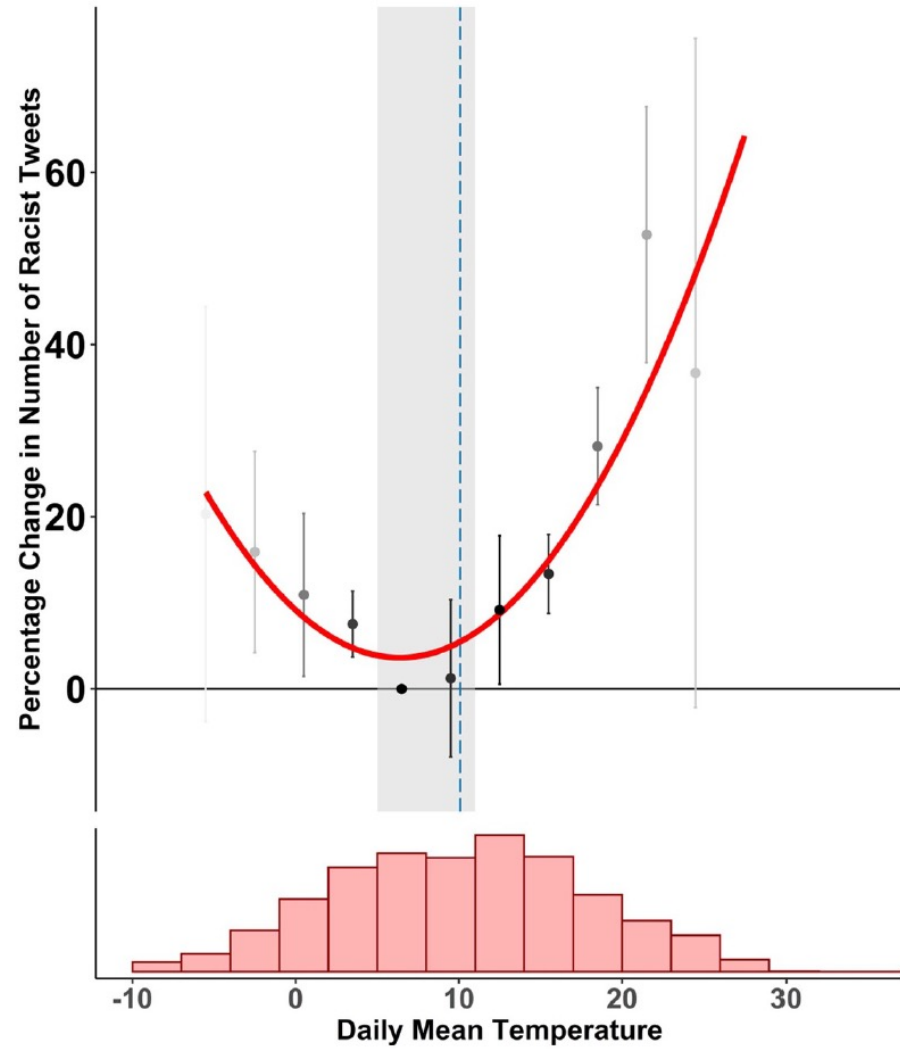
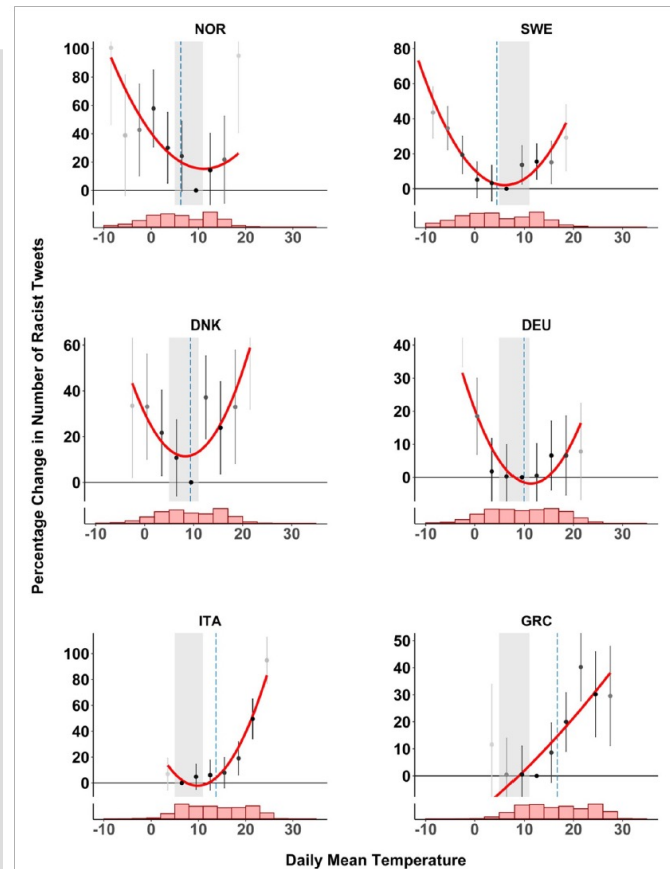
Match daily tweet count with population-weighted maximum temperature time series.



Add data for regression controls.

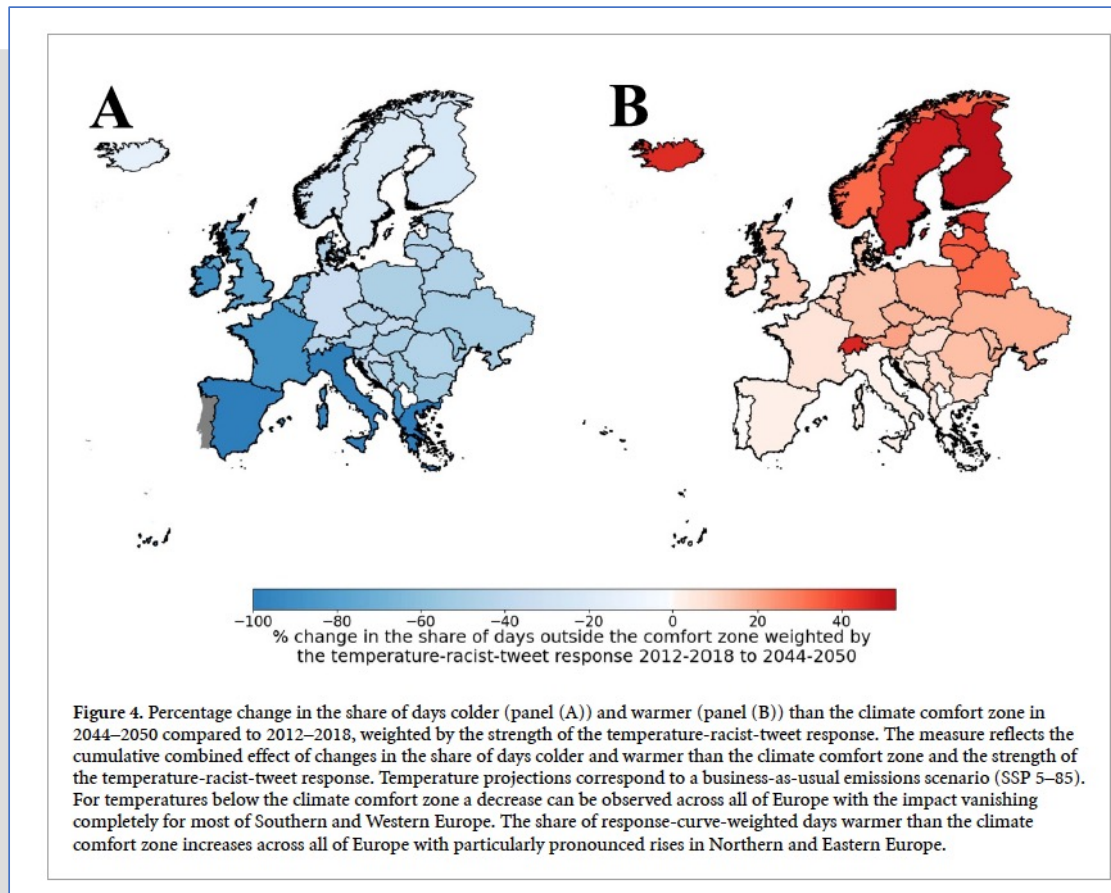
Input in regression model

Hass und Hitze



Stechemesser, Annika, et al. "Strong increase of racist tweets outside of climate comfort zone in Europe." *Environmental Research Letters* 16.11 (2021): 114001.

Hass und Hitze





AUSWIRKUNGEN AUF DIE MENTALE GESUNDHEIT

Schlaf, Wetterfühligkeit...

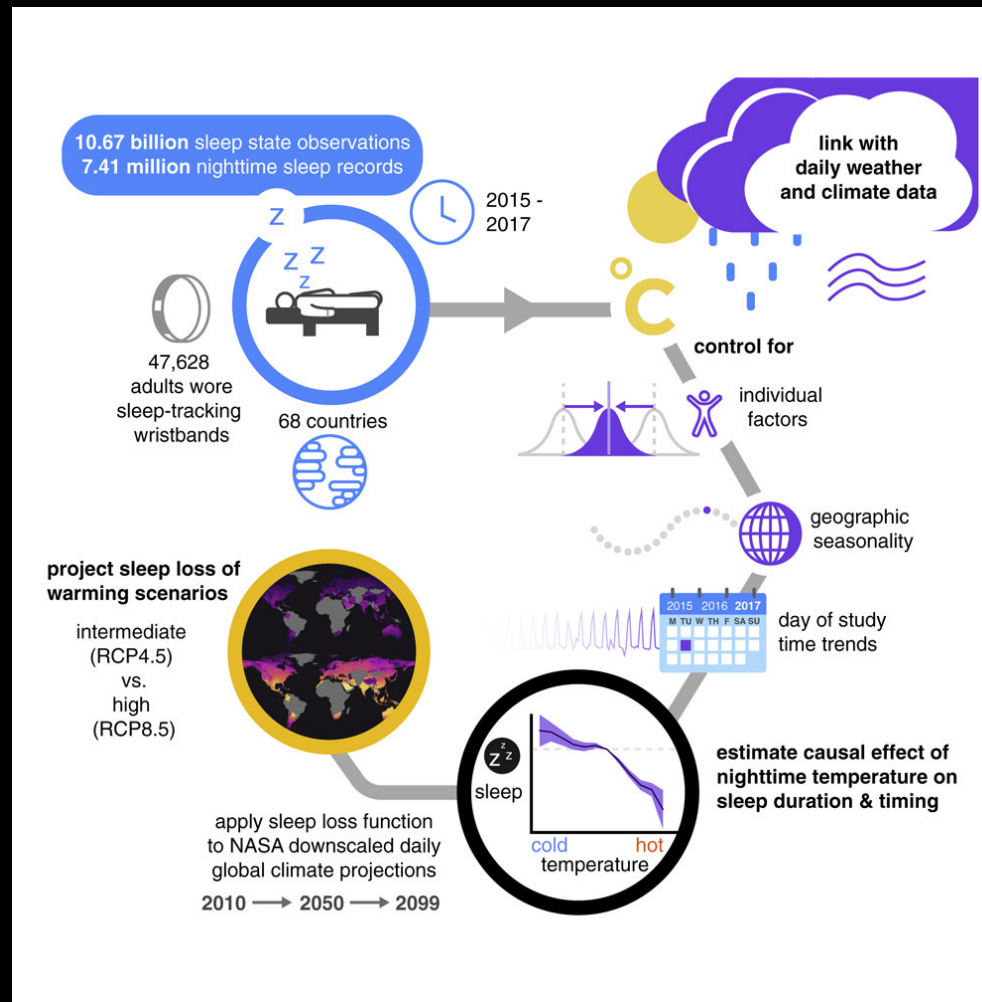


Figure 4

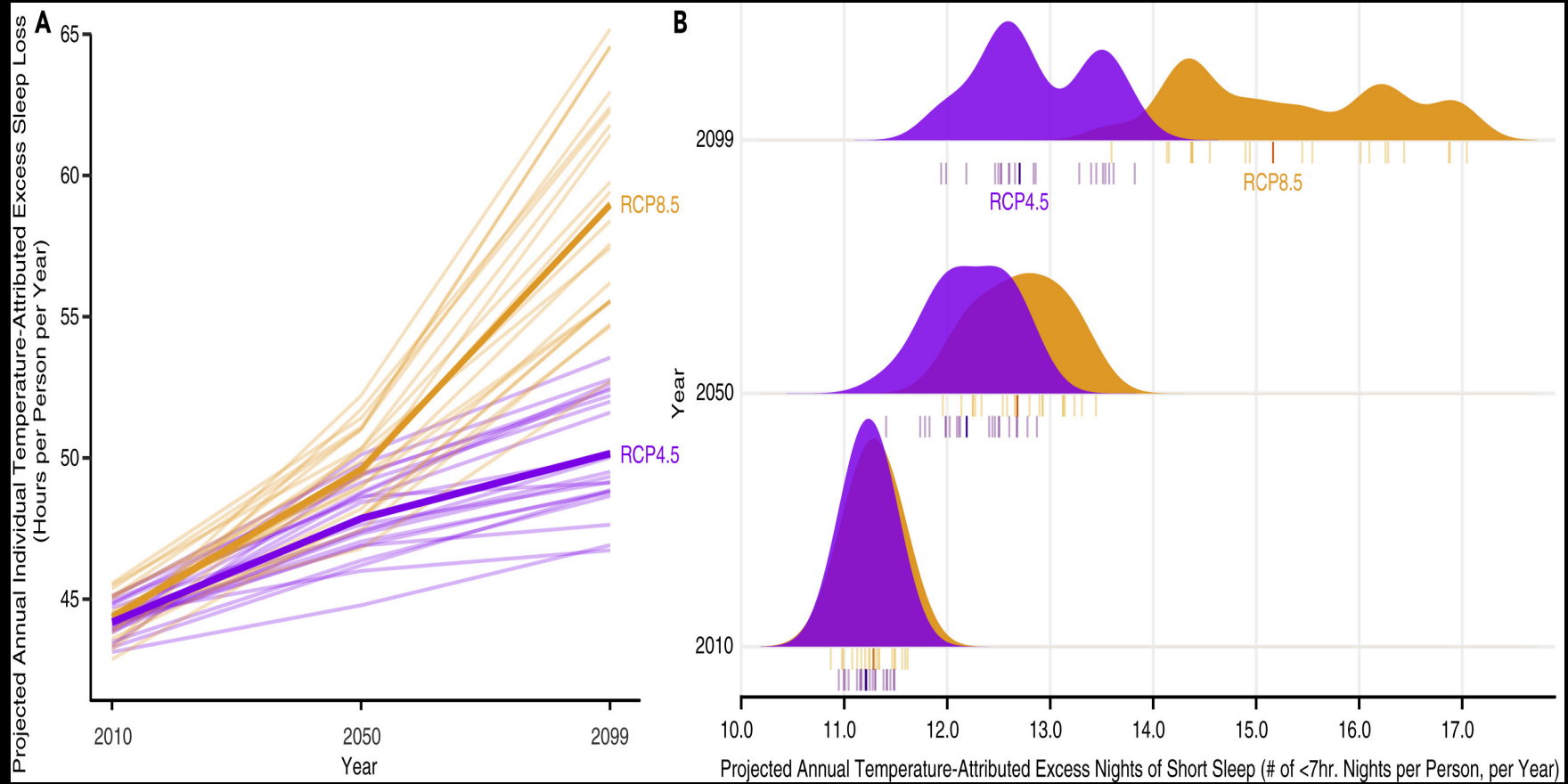
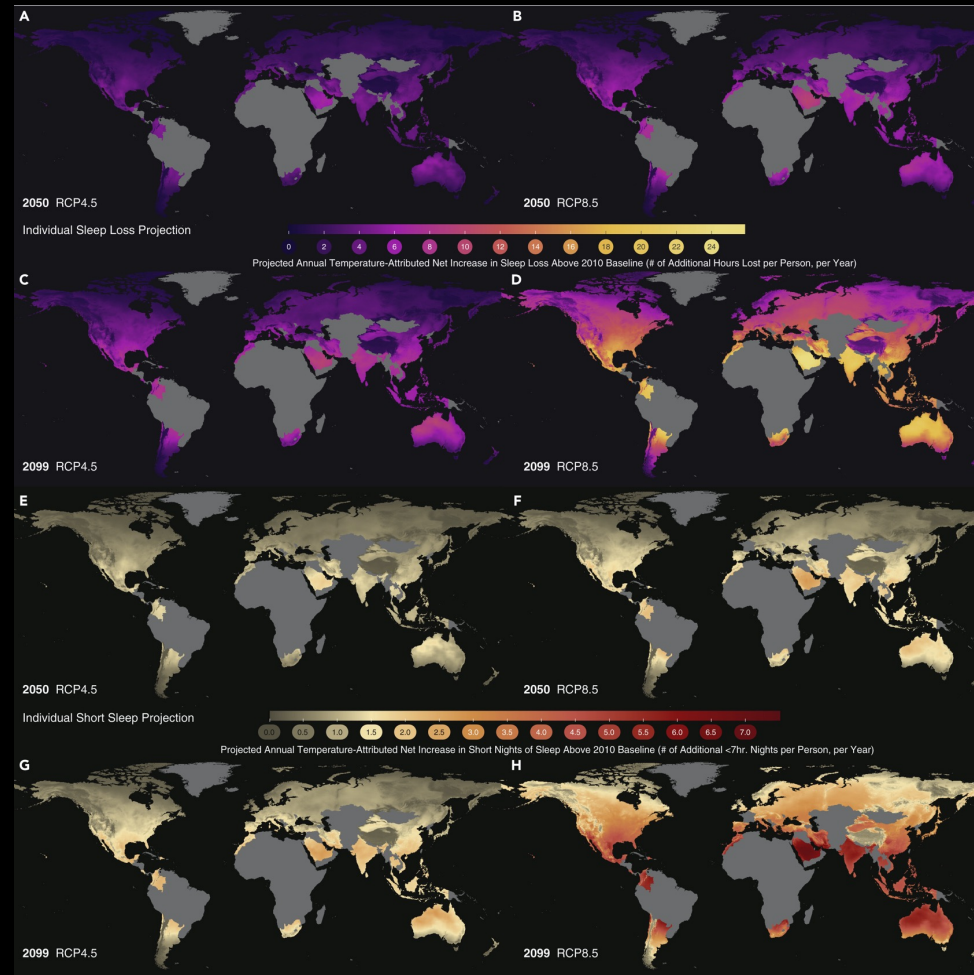
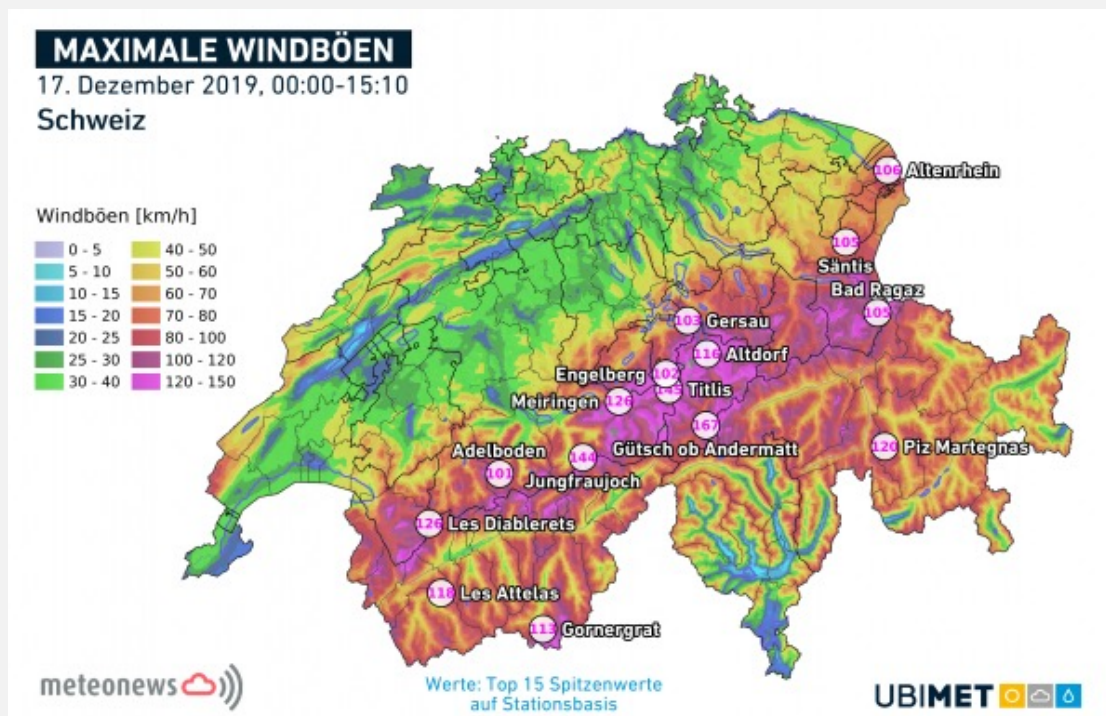


Figure 5



FÖHN IN MEIRINGEN



Ein natürliches Experiment

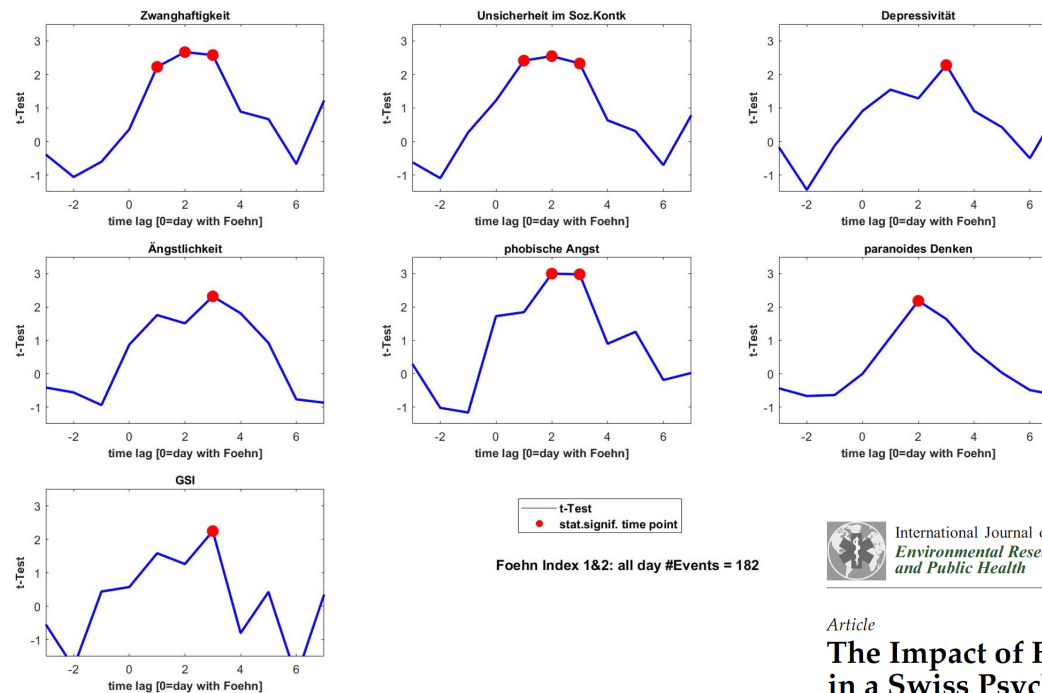
- Privatklinik Meiringen im Föhntal
- Zuletzt Föhn mit bis zu 125 km/h (Orkanstärke)

Article

The Impact of Foehn Wind on Mental Distress among Patients in a Swiss Psychiatric Hospital

Christian A. Mikutta ^{1,2,3,†}, Charlotte Pervilhac ^{1,4,†}, Hansjörg Znoj ⁴, Andrea Federspiel ^{1,2,✉}
and Thomas J. Müller ^{1,2,✉}

- > Eingeschlossen wurden alle Eintritte in die Privatklinik Meiringen zwischen dem 1. Januar 2013 und dem 31. Dezember 2020
- > insgesamt 10'456 Aufnahmetage
- > Daten von MeteoSchweiz Meiringen
 - > Koordinaten 46°44' N 8°10' E auf 588 Meter über dem mittleren Meeresspiegel
 - > Klimazone *Cfb* nach der Köppen-Klassifikation
 - > täglicher Index des Vorhandenseins von Föhn, aufgezeichnet alle 10 Minuten. Der Föhnindex war 0 [kein Föhn], 1 [mässiger Föhn] und 2 [starker Föhn]. 1 Tag entspricht 144 Werten
- > BSCL (Skala mit 57 Items zur Symptomatik) bei Aufnahme und Entlassung



Article

The Impact of Foehn Wind on Mental Distress among Patients in a Swiss Psychiatric Hospital



Christian A. Mikutta ^{1,2,3,†}, Charlotte Pervilhac ^{1,4,†}, Hansjörg Znoj ⁴, Andrea Federspiel ^{1,2} 
 and Thomas J. Müller ^{1,2,*} 

Figure 2

Plot of statistical relationship between 7 BSCL variables as a function of time lag after the occurrence of a Foehn index 1 OR 2. Statistical significant time lag points are marked by red circle.

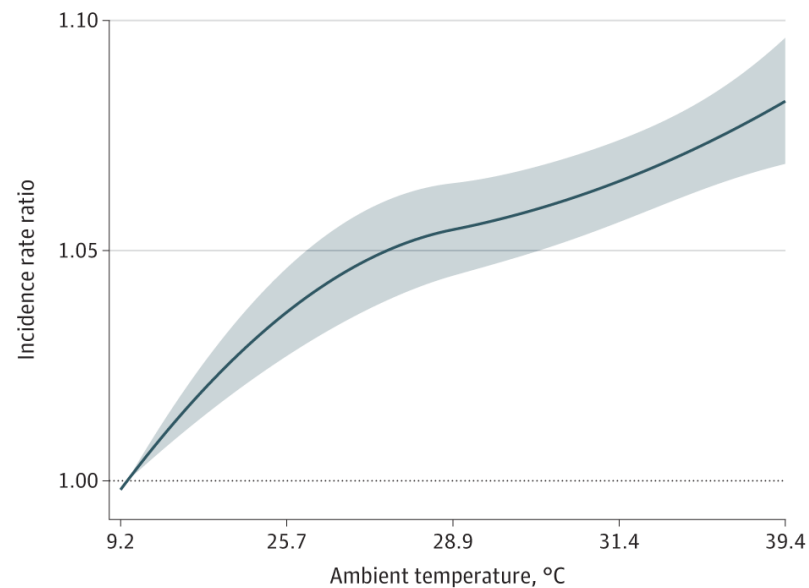


AUSWIRKUNGEN AUF DIE MENTALE GESUNDHEIT

Aufnahmeraten und Suizide

From: **Association Between Ambient Heat and Risk of Emergency Department Visits for Mental Health Among US Adults, 2010 to 2019**

JAMA Psychiatry. 2022;79(4):341-349



Cumulative Exposure-Response Curve of the Association Between Warm-Season Temperatures and Emergency Department Visits for Any Mental Health Condition. Incidence rate ratio of emergency department visits with increasing temperature compared with optimal temperature. Main model adjusted for relative humidity and day of the week. Shading represents the 95% CI. The optimal temperature is the first percentile of the county-specific temperature distribution, at which minimum morbidity occurs. The additional temperatures shown on the x-axis represent the 25th, 50th, 75th, and 100th percentiles of the county-specific temperature distribution, converted to the equivalent actual temperature across all counties in the study area.

From: **Association Between Ambient Heat and Risk of Emergency Department Visits for Mental Health Among US Adults, 2010 to 2019**

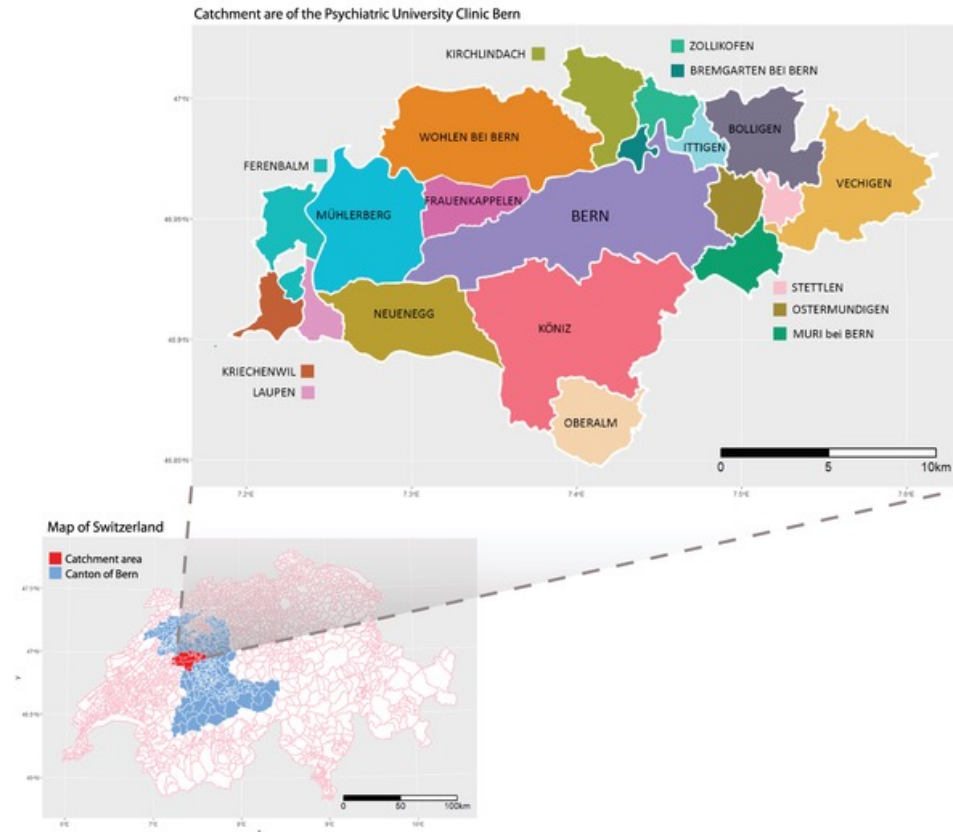
JAMA Psychiatry. 2022;79(4):341-349

Table 2. Comparison of Overall and Cause-Specific Emergency Department Visits During Periods of High Temperature vs Optimal Temperature

Reason for ED visit	Incidence rate ratio (95% CI)	
	95th Percentile of local warm-season maximum daily temperature	80th Percentile of local warm-season maximum daily temperature
Overall	1.08 (1.07-1.09)	1.07 (1.06-1.08)
Substance use disorders	1.08 (1.07-1.10)	1.07 (1.06-1.08)
Anxiety, stress-related, and somatoform disorders	1.07 (1.05-1.09)	1.06 (1.05-1.08)
Mood disorders	1.07 (1.05-1.09)	1.07 (1.05-1.09)
Schizophrenia, schizotypal, and delusional disorders	1.05 (1.03-1.07)	1.05 (1.02-1.09)
Self-harm	1.06 (1.01-1.12)	1.05 (1.01-1.09)
Childhood-onset behavioral disorders	1.11 (1.05-1.18)	1.10 (1.05-1.15)
Miscellaneous	1.06 (0.98-1.15)	1.07 (1.00-1.14)
Adult personality and behavior disorders	1.01 (0.87-1.17)	1.08 (0.97-1.21)

Comparison of Overall and Cause-Specific Emergency Department Visits During Periods of High Temperature vs Optimal Temperature

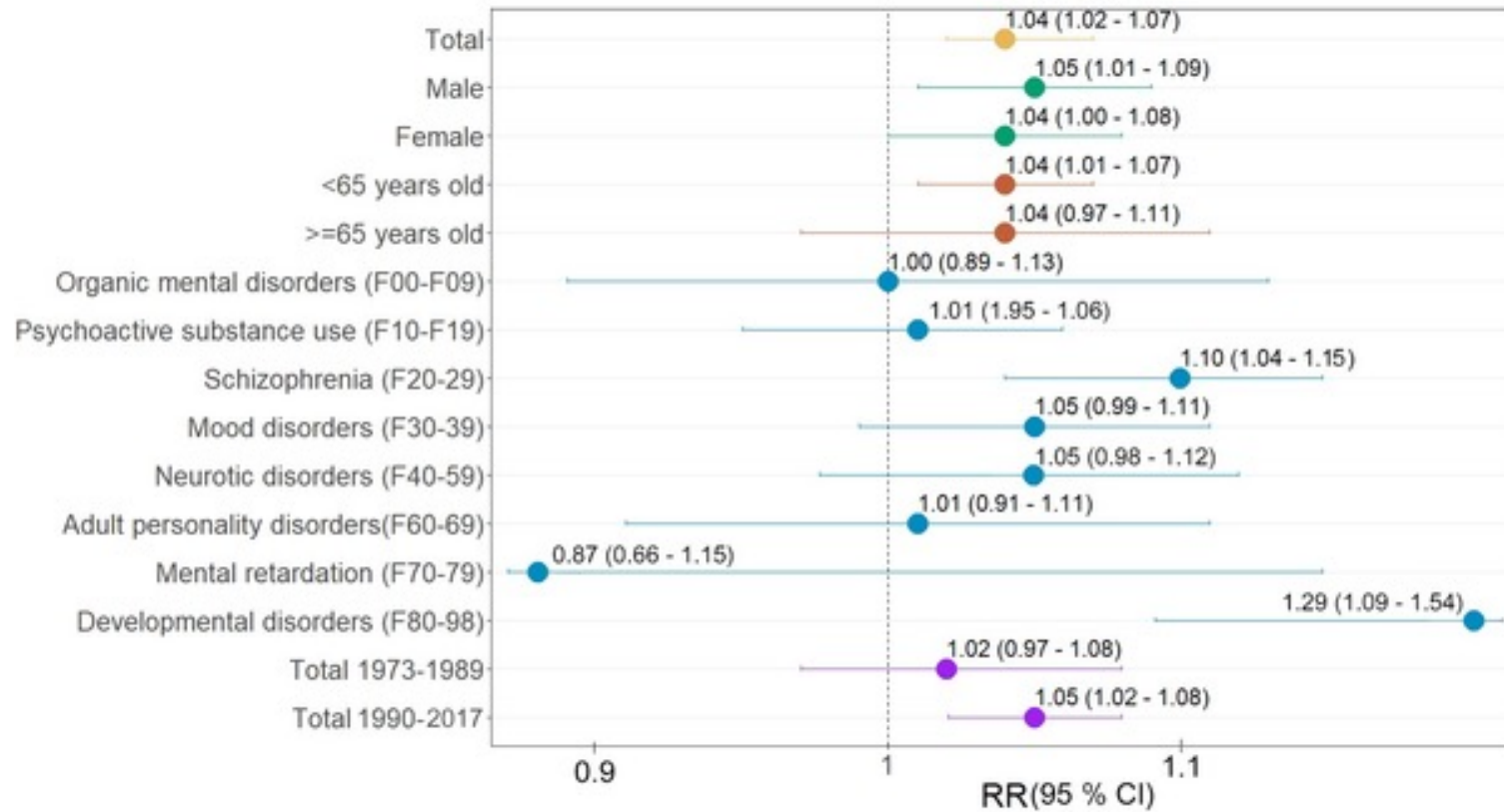
Fig 1. Catchment area of the University Psychiatric Hospital, Bern, Switzerland.



Bundo M, de Schrijver E, Federspiel A, Toreti A, Xoplaki E, Luterbacher, J., Franco, O. H., **Muller, T.**, Vicedo-Cabrera, A. M. Ambient temperature and mental health hospitalizations in Bern, Switzerland: A 45-year time-series study. PLOS ONE. 2012;16(10): e0258302.

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0258302>

Fig 3. Relative risks (RR, 95% confidence interval (CI)) of mental disorders hospitalizations per 10°C increase in mean daily temperature (lag 03).



Bundo M, de Schrijver E, Federspiel A, Toreti A, Xoplaki E, Luterbacher, J., Franco, O. H., **Muller, T.**, Vicedo-Cabrera, A. M. Ambient temperature and mental health hospitalizations in Bern, Switzerland: A 45-year time-series study. PLOS ONE. 2012;16(10): e0258302.

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0258302>

Hitze und Suizid in der Schweiz

Suicides and ambient temperature in Switzerland: a nationwide time-series analysis

Séverine Bär^a, Marvin Bundo^{abc}, Evan de Schrijver^{abc}, Thomas J. Müller^{de}, Ana Maria Vicedo-Cabrera^{ab}

^a Institute of Social and Preventive Medicine, University of Bern, Bern, Switzerland

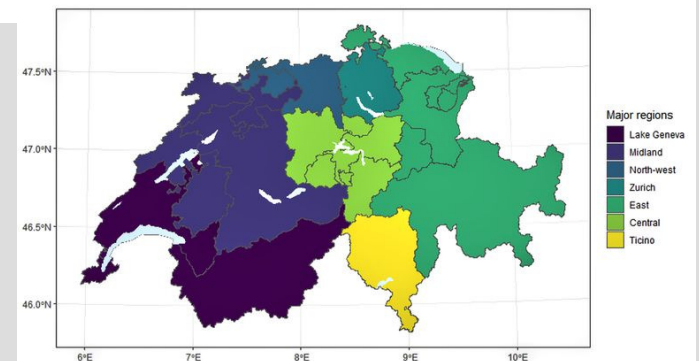
^b Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland

^c Graduate School for Health Sciences, University of Bern, Bern, Switzerland

^d Translational Research Centre, University Hospital of Psychiatry and Psychotherapy University of Bern, Bern, Switzerland

^e Private Clinic Meiringen, Meiringen, Switzerland

CONCLUSIONS: Our findings suggest that increasing temperatures could be considered a risk factor for suicidal behaviour in Switzerland. Knowledge of the profile of people committing suicide could help us to understand the mechanisms behind this association and thus support policymakers in suicide prevention.



Risikozunahme bei ungewöhnlicher Hitze

Table 2:
Temperature-suicide association.

	All	Sex		Age			Method	
		Male	Female	<35 years	35–65 years	<65 years	Nonviolent	Violent
Pooled	1.34 (1.19–1.52)	1.29 (1.12–1.49)	1.48 (1.17–1.87)	1.52 (1.12–2.06)	1.29 (1.03–1.61)	1.26 (0.96–1.67)	1.68 (1.15–2.46)	1.31 (1.15–1.49)
Lake Geneva	1.34 (1.20–1.50)	1.30 (1.14–1.48)	1.47 (1.18–1.84)	1.63 (1.08–2.45)	1.32 (0.96–1.81)	1.15 (0.78–1.70)	1.67 (1.16–2.40)	1.31 (1.17–1.47)
Midland	1.39 (1.22–1.59)	1.35 (1.16–1.57)	1.54 (1.21–1.96)	1.92 (1.27–2.89)	1.46 (1.08–1.99)	1.07 (0.73–1.56)	1.74 (1.19–2.56)	1.36 (1.19–1.56)
North-West	1.55 (1.19–2.02)	1.51 (1.15–1.98)	1.73 (1.23–2.41)	1.67 (0.98–2.86)	1.40 (0.89–2.20)	1.83 (1.11–3.04)	1.95 (1.25–3.05)	1.51 (1.15–1.97)
Zurich	1.29 (1.03–1.63)	1.23 (0.97–1.57)	1.42 (1.04–1.93)	1.35 (0.82–2.23)	1.26 (0.84–1.90)	1.21 (0.76–1.95)	1.64 (1.06–2.55)	1.26 (0.99–1.59)
East	1.24 (1.01–1.52)	1.19 (0.96–1.48)	1.36 (1.02–1.80)	1.25 (0.80–1.96)	1.34 (0.92–1.94)	1.19 (0.77–1.85)	1.54 (1.02–2.32)	1.21 (0.99–1.49)
Central	1.36 (1.09–1.70)	1.33 (1.05–1.67)	1.51 (1.12–2.02)	1.50 (0.93–2.42)	1.16 (0.77–1.74)	1.28 (0.80–2.04)	1.69 (1.12–2.56)	1.33 (1.07–1.67)
Ticino	1.25 (0.81–1.92)	1.17 (0.76–1.82)	1.36 (0.84–2.20)	1.41 (0.68–2.92)	1.10 (0.56–2.15)	1.27 (0.63–2.57)	1.61 (0.90–2.89)	1.21 (0.78–1.86)

Relative risks (RR) at the 99th percentile (vs. 10th percentile) with 95% confidence intervals [CI]: pooled estimates and by region overall and for the subgroups of sex (male, female), age group (<35, 35–65, >65 years) and method of suicide (violent or nonviolent)



WIE REAGIEREN WIR?

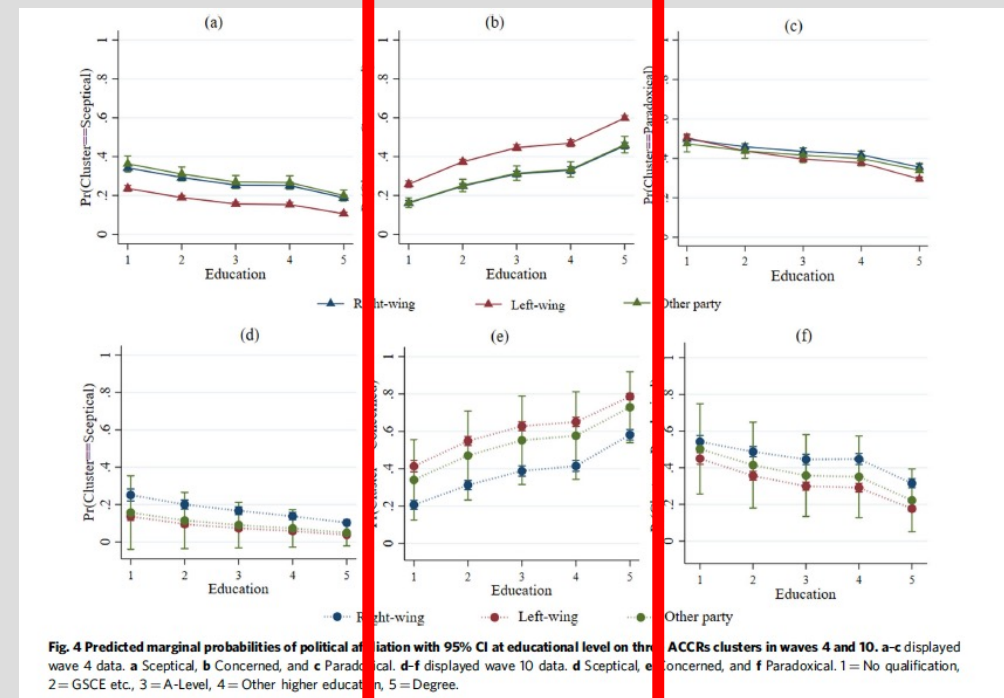
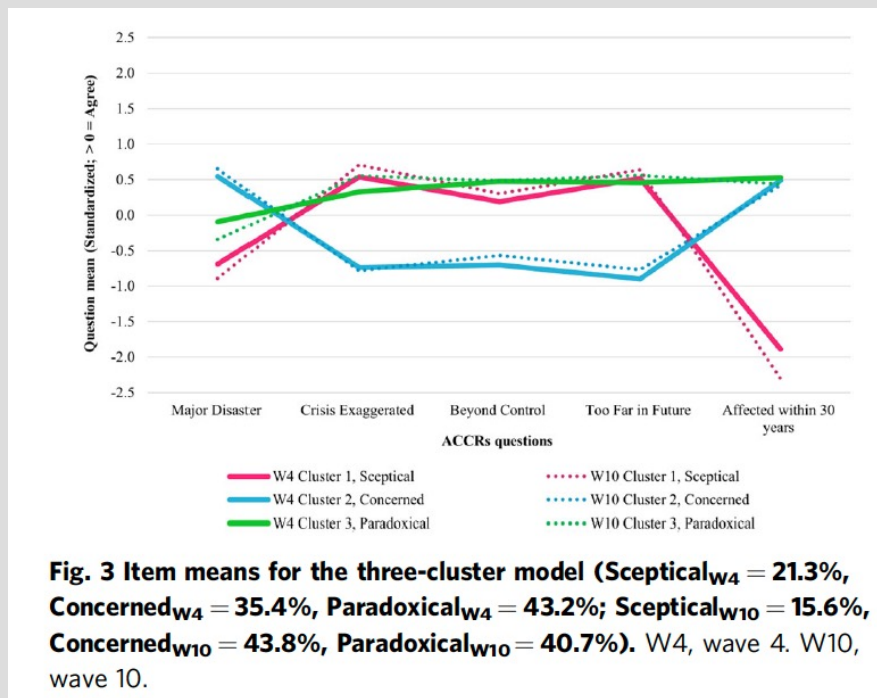
Einstellung gegenüber dem Klimawandel

Table 1 Measures of ACCRs.	
Variable name	Statement
Beyond control	Climate change is beyond control, it's too late to do anything about it.
Too far in future	The effects of climate change are too far in the future to really worry me.
Affected within 30 years	People in the UK will be affected by climate change in the next 30 years.
Major disaster	If things continue on their current course, we will soon experience a major environmental disaster.
Crisis exaggerated	The so-called 'environmental crisis' facing humanity has been greatly exaggerated.

2-Wellen-Stichprobenuntersuchung in Grossbritannien zwischen 2012 und 2020;
n>35'000

Liu, Ting, Nick Shryane, and Mark Elliot. "Attitudes to climate change risk: classification of and transitions in the UK population between 2012 and 2020." Humanities and Social Sciences Communications 9.1 (2022): 1-15.

Einstellung gegenüber dem Klimawandel



Zunahme der Besorgnis

Liu, Ting, Nick Shryane, and Mark Elliot. "Attitudes to climate change risk: classification of and transitions in the UK population between 2012 and 2020." *Humanities and Social Sciences Communications* 9.1 (2022): 1-15.

eco-angst / eco-anxiety / ecological grief / sostaligia / flygskam...

- > Angst um die «Klimazukunft» als Risikofaktor für die Entwicklung psychiatrischer Erkrankungen? **Könnte sein...**
- > Besonders junge Menschen fühlen sich gegenüber den bevorstehenden Veränderungen ohnmächtig
- > Medienberichterstattung über den Klimawandel erhöht den Druck auf junge Menschen
- > Es liegen jedoch **keine** aktuellen Studien und Indikatoren für einen konkreten Einfluss auf die Häufigkeit psychiatrischer Störungen vor.



WIE GEHEN WIR
DAMIT UM?





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journal homepage: www.elsevier.com



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u^b Meiringen

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From anger to action: Differential impacts of eco-anxiety, eco-depression, and eco-anger on climate action and wellbeing

Samantha K. Stanley^{a,*}, Teaghan L. Hogg^b, Zoe Leviston^{a,c}, Iain Walker^a

^a Research School of Psychology, Australian National University, Australia

^b Centre for Applied Psychology, University of Canberra, Australia

^c School of Arts and Humanities, Edith Cowan University, Australia



Online Befragung
aus Australien

A B S T R A C T

Research documents the experiences of depression and anxiety evoked by climate change, but little attention has been given to frustration and anger, or to untangling the effects of different emotional responses to the climate crisis on human and planetary health. Using Australian national survey data, we found that experiencing eco-anger predicted better mental health outcomes, as well as greater engagement in pro-climate activism and personal behaviours. Eco-anxiety and eco-depression were less adaptive, relating to lower wellbeing. Interestingly, those feeling eco-depressed were more likely to report participating in collective climate action, while those feeling eco-anxious were less likely to join the cause. Our findings implicate anger as a key adaptive emotional driver of engagement with the climate crisis, and prompt warnings about the mental health of populations increasingly worried and miserable about climate change.

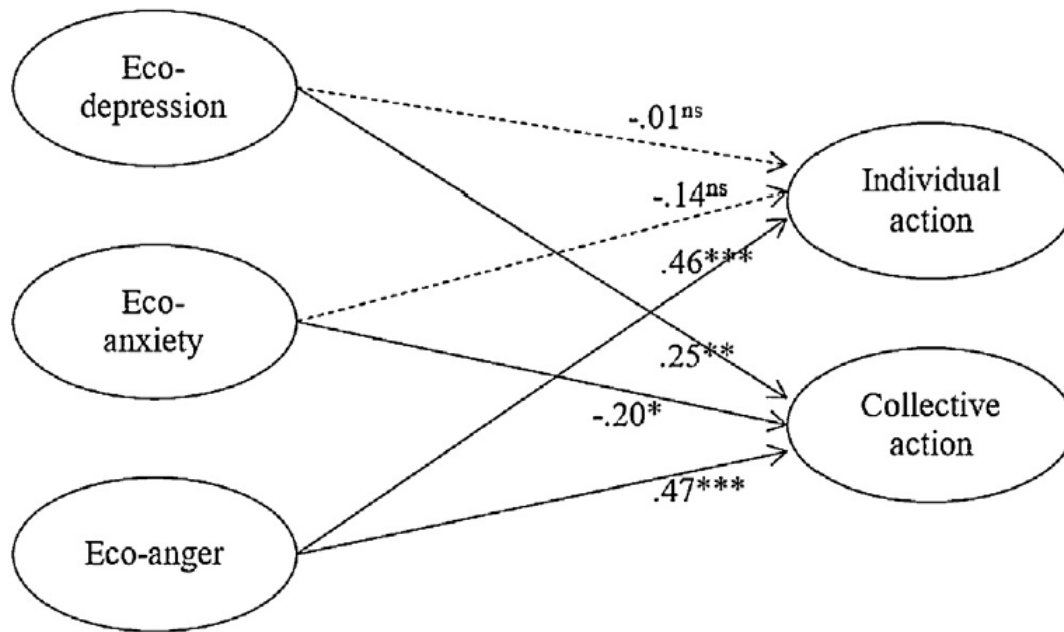


Fig. 2. Standardised paths from a structural equation model predicting pro-climate behaviours from climate-related emotions.

Note. $***p < .001$, $**p < .01$, $*p < .05$, $^{ns}p > .05$, $N = 2,453$, $\chi^2(198) = 2320.76$, $CFI = .93$, $TLI = .91$, $RMSEA = .07$ (95 % CI [.06, .07]), $SRMR = .06$.

Wut über Klimawandel führt zu Engagement und Reduktion des Risikos zur Entwicklung einer psychischen Störung

AUSWIRKUNGEN



Prävention und Anpassungsmassnahmen

○ Individuelle Ebene

- Psychoedukation für gefährdete Gruppen
- Verhaltensinterventionen und Verhaltensempfehlungen
- Erhöhen der Erfahrung von Kontrolle (z. B. soziales Engagement)
- Förderung der Resilienz

○ Kollektive Ebene

- Ausbildung im Gesundheitssektor
- Sensibilisierung des Gesundheitspersonals
- Warnsysteme für drohende Hitze
- Städtebauliche Massnahmen
 - Grüne und blaue Zonen
- energieeffiziente Kühlung von Gebäuden



[https://de.wikipedia.org/wiki/Klimaanlage#/media/Datei:2017-09-19_\(304\)_Air_conditioner_Toshiba_RAV-SP564AT-E_at_Bahnhof_Melk.jpg](https://de.wikipedia.org/wiki/Klimaanlage#/media/Datei:2017-09-19_(304)_Air_conditioner_Toshiba_RAV-SP564AT-E_at_Bahnhof_Melk.jpg)



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PSYCHOLOGY & GLOBAL CLIMATE CHANGE

addressing a multifaceted phenomenon and set of challenges



A Report of the American Psychological Association
Task Force on the Interface Between Psychology & Global Climate Change

<http://www.apa.org/science/about/publications/climate-change.aspx>



Green spaces aren't just for nature – they boost our mental health too

We're beginning to understand just how vital access to natural space is for our mental well-being – with implications for how we design cities worldwide



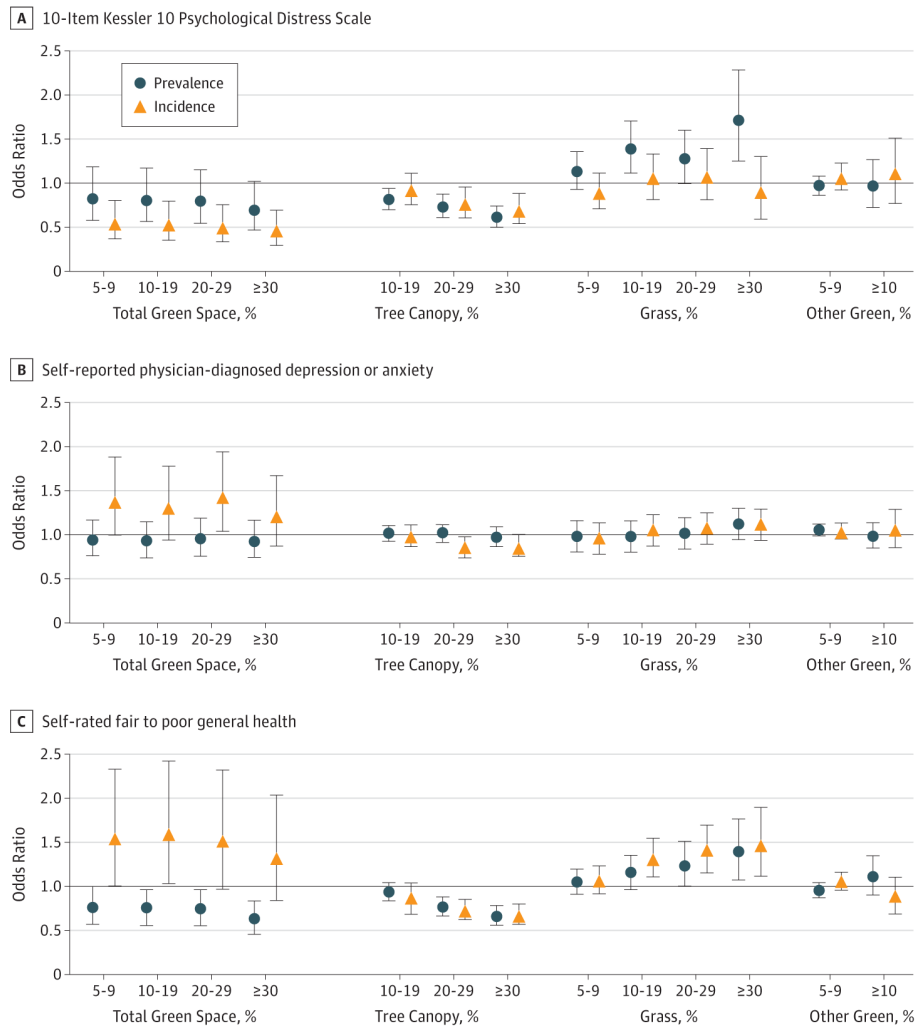
ENVIRONMENT 24 March 2021

By [Kate Douglas](#)

New Scientist, 24.03.2021

From: **Association of Urban Green Space With Mental Health and General Health Among Adults in Australia**

Astell-Burt T & Feng X. JAMA Netw Open. 2019;2(7):e198209.



- Kohortenstudie mit 46 786 Erwachsenen älter als 45 Jahre
- Exposition gegenüber 30 % oder mehr **Baumkronen** im Vergleich zu 0 % bis 9 % Baumkronen mit einer um 31 % geringeren Wahrscheinlichkeit für das Auftreten von psychischen Problemen verbunden,
- Exposition gegenüber 30 % oder mehr **Gras** mit einer um 71 % höheren Wahrscheinlichkeit für das Auftreten von psychischen Problemen verbunden

Associations Between Types of Green Space and Psychological Distress, Depression or Anxiety, and Fair to Poor General Health Findings are adjusted for confounding in multilevel logistic regressions. For total green space, grass, and other green, the reference category is 0% to 4%; for tree canopy, the reference category is 0% to 9%. Error bars indicate 95% CIs.

ABER... EIN DOPPELSCHLAG?

COVID-19 pandemic triggers 25% increase in prevalence of anxiety and depression worldwide

Wake-up call to all countries to step up mental health services and support

2 March 2022 | News release | Reading time: 3 min (927 words)

In the first year of the COVID-19 pandemic, global prevalence of anxiety and depression increased by a massive 25%, according to a scientific brief released by the World Health Organization (WHO) today. The brief also highlights who has been most affected and summarizes the effect of the pandemic on the availability of mental health services and how this has changed during the pandemic.

Concerns about potential increases in mental health conditions had already prompted 90% of countries surveyed to include mental health and psychosocial support in their COVID-19 response plans, but major gaps and concerns remain.

"The information we have now about the impact of COVID-19 on the world's mental health is just the tip of the iceberg," said Dr Tedros Adhanom Ghebreyesus, WHO Director-General. "This is a wake-up call to all countries to pay more attention to mental health and do a better job of supporting their populations' mental health."



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Carla Drysdale

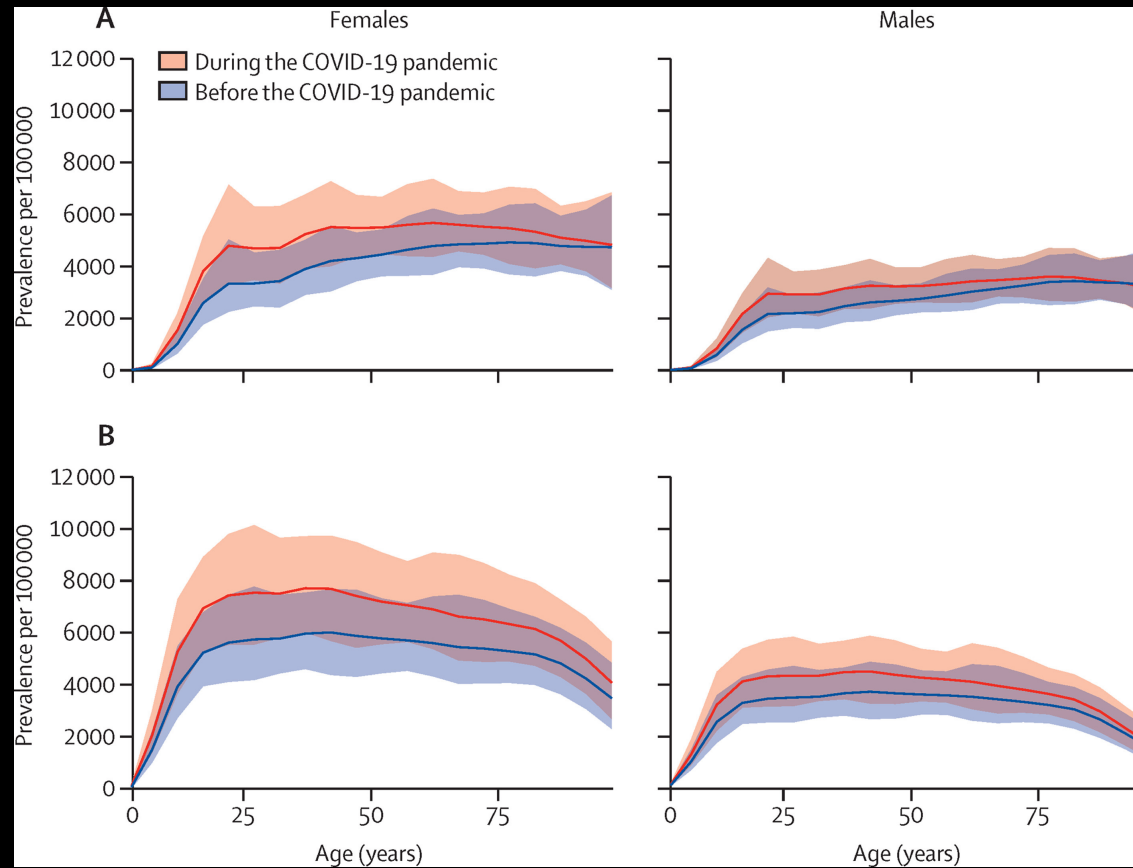
Communications Officer
World Health Organization

Telephone: +41 22 791 12 50

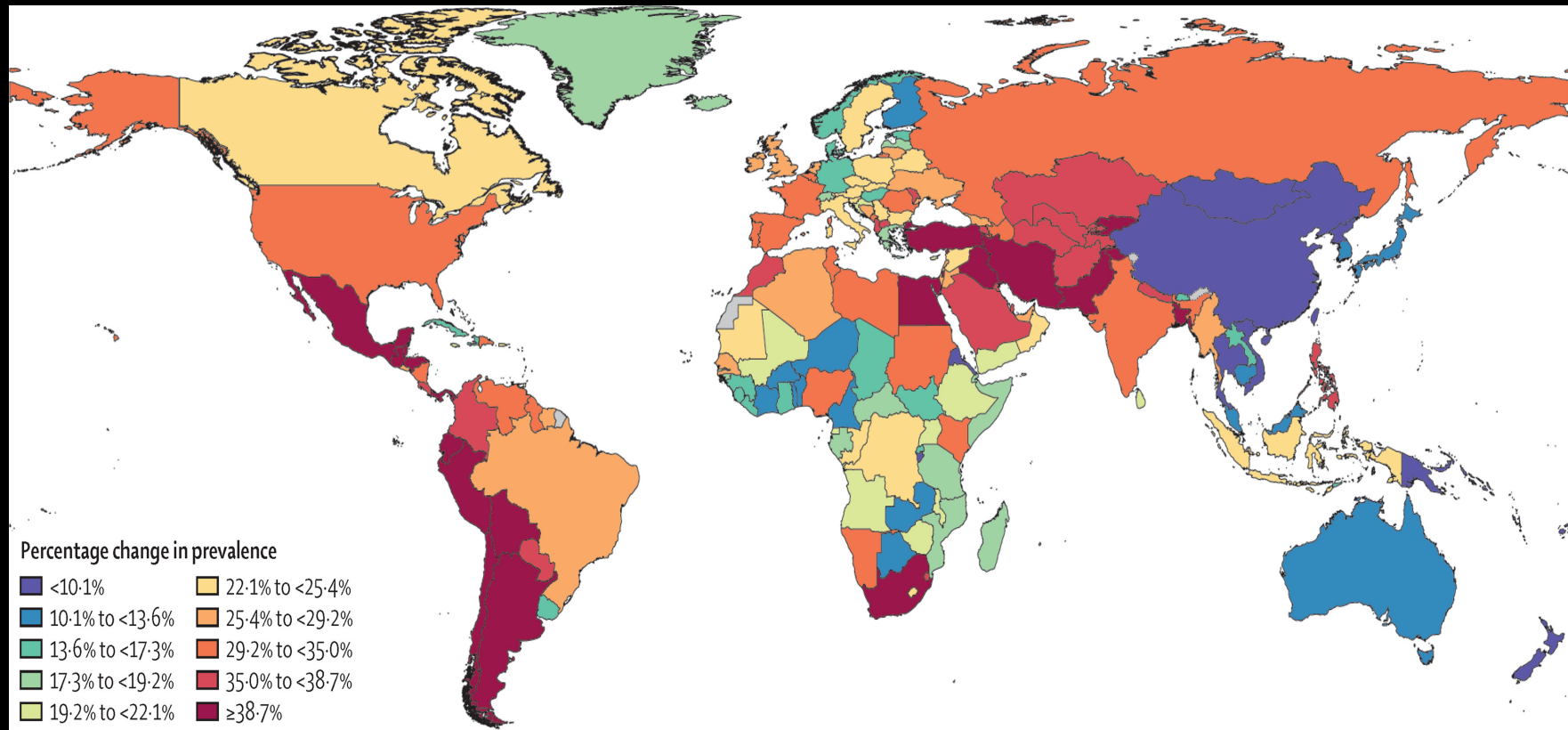
Mobile: +41 79 716 45 46

Email: cdrysdale@who.int

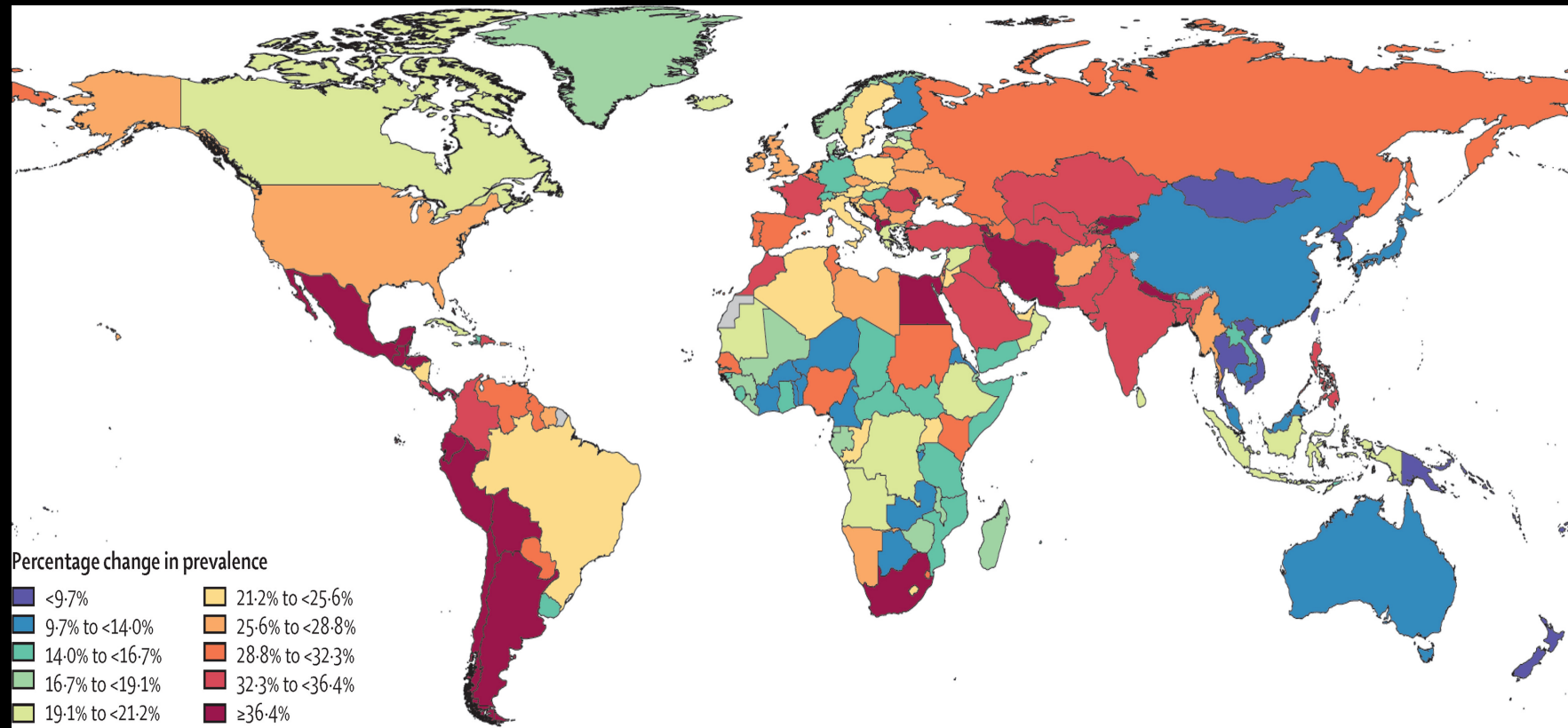
Global prevalence of major depressive disorder (A) and anxiety disorders (B) before and after adjustment for (ie, during) the COVID-19 pandemic, 2020, by age and sex

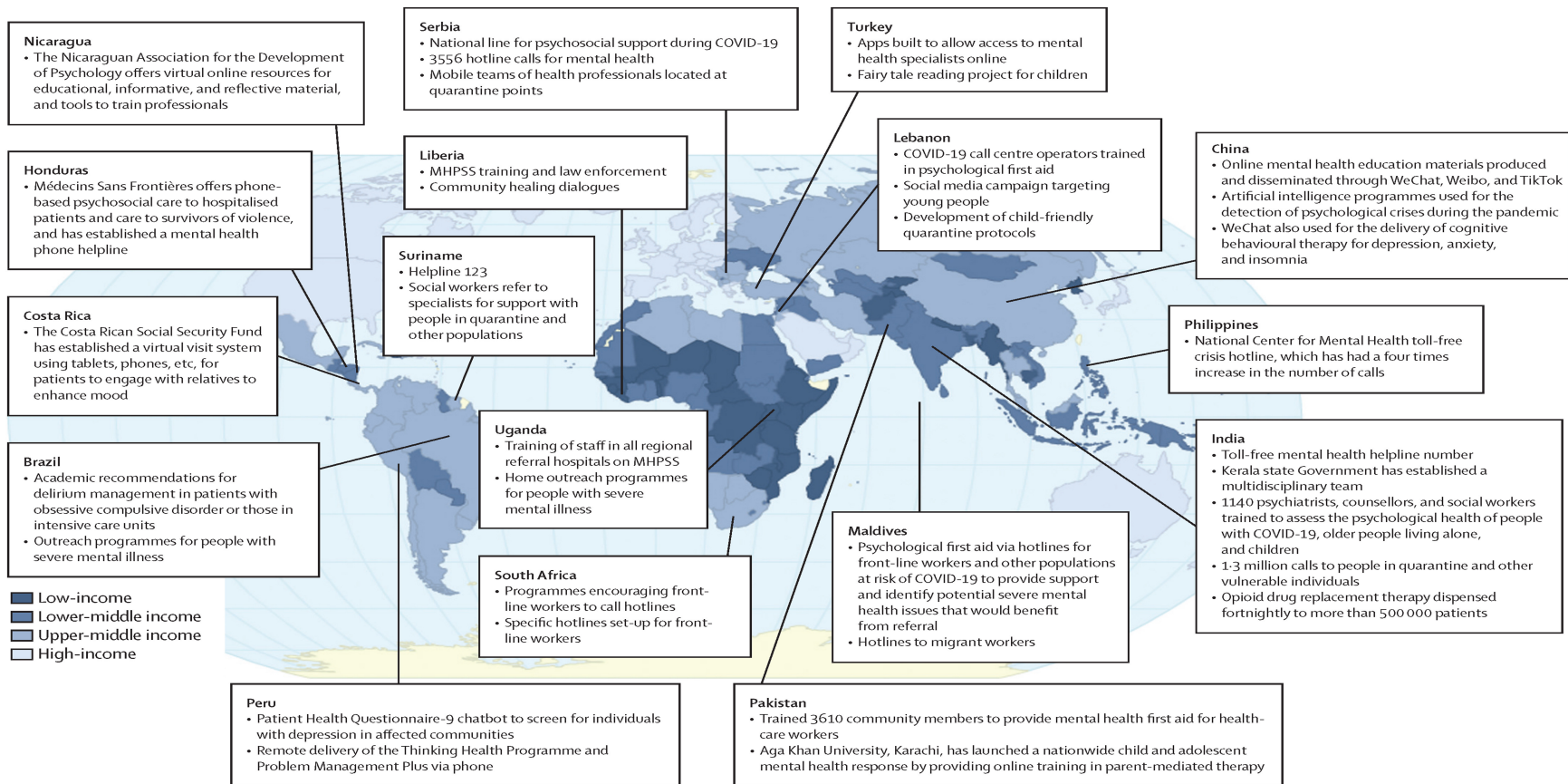


Change in the prevalence of major depressive disorder after adjustment for (ie, during) the COVID-19 pandemic, 2020



Change in the prevalence of anxiety disorders after adjustment for (ie, during) the COVID-19 pandemic, 2020





Kola L. et al. "COVID-19 mental health impact and responses in low-income and middle-income countries: reimagining global mental health." *The Lancet Psychiatry* 8.6 (2021): 535-550.

ZUSAMMENFASSENDE
GEDANKEN...

Aktuell mehrere globale Krisenherde
(Ukraine, COVID, Klimawandel)

Umgebungsvariablen wie das Wetter
beeinflussen unser Verhalten.

Der Klimawandel belastet die psychische
Gesundheit.

Kontrolle übernehmen als wichtige Ressource
für psychische Gesundheit.

Psychisch Erkrankte brauchen als besonders
vulnerable Gruppe besonderen Schutz.

Die Politik muss auch in diesem
Zusammenhang aufwachen.

Besten Dank!

Privatklinik 
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Die Literatur ist auf Anfrage bei Lundbeck erhältlich.
CH-NOTPR-0491