Reception





Lori Byron

Chair Montana Health Professionals for a Healthy Climate **Julia Olson** Executive Director & Chief Legal Counsel Our Children's Trust







Youth, Health Professionals, and the Climate Movement

Julia Olson Executive Director & Chief Legal Counsel Our Children's Trust



OUR GOALS

Science-Powered Solution

Youth-Powered Litigation

Democracy-Powered Future



We trust science.

We trust children.

We trust democracy.

ourchildrenstrust.org

The climate crisis is the single biggest driver of health for every child born today.

Lisa Patel, MD, MESc

Executive Director, Medical Society Consortium on Climate and Health Board Member, Our Children's Trust



that young people deserve to be happy and safe today and in the future. We use our legal and scientific expertise so they can tell their stories.

Our Courts

are vital to democracy and empowered to protect our children and the planet.







Our Children's Trust Youth v. Gov

Human Rights Lawyers for Youth since 2010

We advocate for and elevate the voices of Youth and Future Generations for climate rights

We advocate only for science-based and legally enforceable systemic remedies in court

We protect fundamental human rights

Held v. State of Montana

First Ever Children's Constitutional Climate Trial June 12 – 20, 2023, Helena, MT

Photo: Robin Loznak





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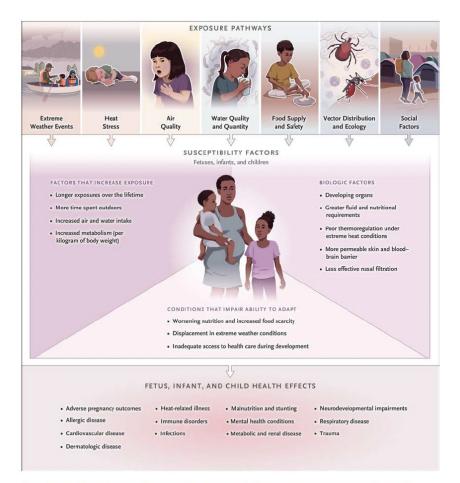
Dr. Lori Byron



Conclusions

- The health and well-being of the Plaintiffs, both now and in the future, is being put at risk by Montana's fossil fuel energy system and the resulting air pollution and climate impacts.
- Health is already being harmed by global temperature increases.
- Simply "treating" health problems caused by air pollution or climate change after they arise is neither adequate nor acceptable.
- The most important interventions are those that address the underlying causes and transition Montana away from extracting and burning fossil fuels.

CLIMATE CHANGE & HEALTH



Drs. Federica Perera & Kari Nadeau, *Climate Change, Fossil-Fuel Pollution, and Children's Health*, New England Journal of Medicine (2022).

Smoke Impacts





CLIMATE CHANGE & HEALTH

INSIGHTS

POLICY FORUM

CLIMATE CHANGE

Intergenerational inequities in exposure to climate extremes

Young generations are severely threatened by climate change

By Wim Thiery, Stefan Lange, Joeri Rogelj, Carl-Friedrich Schleussner, Lukas Gudmundsson, Sonia I. Seneviratne, Marina Andrijevic, Katja Frieler, Kerry Emanuel, Tobias Geiger, David N. Bresch, Fang Zhao, Sven N. Willner, Matthias Büchner, Jan Volkhoiz, Nico Bauer, Jinfeng Chang, Philippe Ciais, Marie Dury, Louis Francois, Manolis Grillakis, Simon N. Gosling, Naota Hanasaki, Thomas Hickler, Veronika Huber, Akihiko Ito, Jonas Jägermeyr, Nikolay Khabarov, Aristeidis Koutroulis, Wenfeng Liu, Wolfgang Lutz, Matthias Mengel, Christoph Müller, Sebastian Ostberg, Christopher P. O. Rever, Tobias Stacke, Yoshihide Wada

waves will increase from ~15% around 2020

to -22% by 2100 under a scenario compat-

change as a function of global mean temper-

scenario-independence of several extreme

By contrast, we performed a birth cohort

analysis by combining a collection of mul-

country-scale life expectancy information

(10), gridded population data (11), and future

global temperature trajectories (12) from the

(IPCC) Special Report on Global Warming of

ountry or region to extreme events across

al changes in climate hazards, population

density, ephort size, and life expects

EXTREME EVENT EXPOSURE

the first figure).

essence, a comparison of time windows,

nder continued global warming, | the land area annually affected by such heat extreme events such as heat waves will continue to rise in frequency intensity, duration, and spatial extent over the next decades (1-4). Younger generations are therefore expected to face more such events across their life. times compared with older generations. This raises important issues of solidarity and fairness across generations (5, 6) that have fueled a surge of climate protests led by young people in recent years and that underpin issues of intergenerational equity raised in recent climate litigation. However, the standard scientific paradigm is to assess climate change in discrete time windows or at discrete levels of warming (7), a "neriod" approach that inhibits quantification of how much more extreme events a particular generation will experience over its lifetime compared with another. By developing a "cohort" perspective to quantify charges in lifetime exposure to climate extremes first figure), we estimate that children born in 2020 will experience a two- to sevenfold

increase in extreme events, particularly heat waves, compared with people born in Our results highlight a severe threat to the safety of young generations and call for

drastic emission reductions to safeguard their future. Meteorological extremes, hazards, or climate change impacts are mostly studied as

they evolve over time under varying emission scenarios and socioeconomic pathways (2. 4. 8). For example, applying a heat wave indicator (see table S1) (9) to four bias-adjusted global climate models indicates that

Author afiliations are available in the supplementary materials Email: wim thier dbuck he

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six, or four times more, respectively, compared with that of a person born in 1960. Repeating this analysis for all cohorts born between 1960 and 2020 highlights clear differences in lifetime exposure to heat waves between older and younger cohorts clobally (see the first figure). The effect of alternative future temperature trajectories on the lifetime exposure multiplication factor becomes discernible only for cohorts younger than 40 years in 2020, with the largest differences for the youngest cohorts.

duced to 22 ± 7 heat waves if warming is

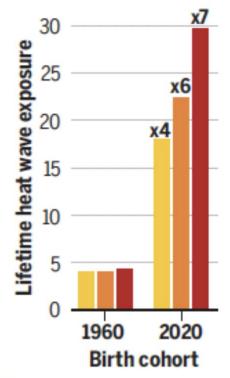
limited to 2°C or 18 ± 8 heat waves if it is limited to 15°C. In any case, that is seven,

The previous example only uses one hazard indicator and a subset of all possible future temperature pathways. We expanded this approach and considered six extreme event categories: wildfires, crop failures, droughts, river floods, heat waves, and tropical cyclones (see table S1), which we analyzed under a wide range of temperature pathways that resulted in future warming that ranges ible with limiting global warming to 1.5°C. from constant present-day levels up to 3.5°C and to ~46% under a scenario in line with by 2100 (see materials and methods and fig current emission reduction pledges (see S1). To this end, we generated a total of 273 the first figure). Recent studies extended global-scale projections with 15 impact mod this approach, studying aspects of climate els forced hy four bias-adjusted global climate models (see table S2). Inspired by the ature (GMT) increments, highlighting the IPCC's Reasons for Concern Framework (7), we visualized the exposure multiplication event indicators (1, 3, 8) but remaining, in factors, relative to a hypothetical reference person living under preindustrial climate conditions as a function of the 2100 GMT anomaly and cohort (see the second figure timodel extreme event projections (3) with and fig. S2) Life expectancy varies with the cohort whereas the hypothetical reference person is given the same life expectancy as that of the 1960 birth cohort in our figures. Therefore, in contrast to the previous com-Intergovernmental Panel on Climate Change parison of lifetime exposure across genera 15°C (see supplementary materials). By intetions given historical and climate conditions grating the exposure of an average person in (see the first figure) we assessed how projected lifetime exposure of birth cohorts is their lifetime, we encapsulate spatiotempoaffected by climate change since the preindustrial era and by increased life expectar since 196

Our results highlight that lifetime exposure to each of the considered extreme events consistently increases for higher Our results allow for comparing lifetime exwarming levels and younger cohorts posure to climate extremes across birth co-Changes in extreme event frequencies have horts globally. For example, a person born relatively little effect on lifetime exposure in 1960 will on average experience around for cohorts above age 55 in 2020, but this 4 ± 2 (I σ) heat waves across their lifetime rapidly changes for younger cohorts as according to our extreme heat wave definithey experience increasing extreme events tion (see the first figure). The lifetime heat in the coming years and decades (see the wave exposure of this cohort is largely insecond figure and fig. S2). For a 3°C global sensitive to the three future temperature warming pathway a 6-year-old in 2020 will scenarios considered here. By contrast, a experience twice as many wildfires and child born in 2020 will experience 30 ± 9 tropical cyclones, three times more river heat waves under a scenario that follows floods, four times more crop failures, five current climate pledges, which could be re-

science.org SCIENCE

...children born in 2020 will experience a twoto sevenfold increase in extreme events, particularly heat waves, compared with people born in 1960...

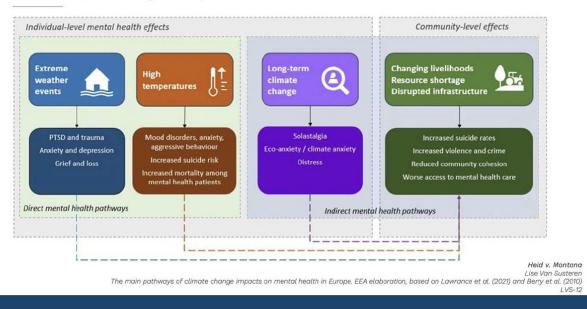


Wim Thiery et al., Intergenerational inequities in exposure to climate extremes. Science (2021).

Dr. Lise Van Susteren



Climate Change Impacts on Mental Health



HELD v. STATE OF MONTANA

Plaintiffs Have Proven Injury

107 (1998). However, Plaintiffs' mental health injuries stemming from the 2 effects of climate change on Montana's environment, feelings like loss, despair, and anxiety, are cognizable injuries. 3 6. Every additional ton of GHG emissions exacerbates Plaintiffs' injuries and risks locking in irreversible climate injuries. 7. Plaintiffs' injuries will grow increasingly severe and irreversible without science-based actions to address climate change 8. Plaintiffs have proven that as children and youth, they are disproportionately harmed by fossil fuel pollution and climate impacts. 10 Plaintiffs have proven that they have suffered infuries that 11 are concrete, particularized, and distinguishable from the public generally. 12 10. Plaintiffs suffer and will continue to suffer injuries due to 13 the State's statutorily mandated disregard of climate change and GHG emissions 14 in the MEPA Limitation, and due to SB 557's removal of MEPA's preventative 15 equitable remedies with Mont. Code Ann. § 75-1-201(6)(a)(ii) 16 B. Plaintiffs Have Proven Causation at Trial. 17 11. The PSC is exempted from MEPA as a matter of law. Mont. 18 Code Ann. § 75-1-201(3).2 19 12. There is a fairly traceable connection between the MEPA 20 Limitation and the State's allowance of resulting fossil fuel GHG emissions, 21 which contribute to and exacerbate Plaintiffs' injuries. 22 13. There is a fairly traceable connection between the State's 23 disregard of GHG emissions and climate change, pursuant to the MEPA 24 Limitation, GHG emissions over which the State has control, climate change 25 impacts, and Plaintiffs' proven injuries. Unlike in Bitterrooters Inc., the causal Hereinafter, when the Court refers to Defendants or the State, the PSC is excluded.

^a Hereinafter, when the Court refers to Defendants or the State, the PSC is excluded Findings of Fatt, Conclusions of Law, and Order – page 87 CDV-2020-307 Plaintiffs have proven that as children and youth, they are disproportionately harmed by fossil fuel pollution and climate impacts.



HELD v. STATE OF MONTANA

2

Plaintiffs Have Proven Injury

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² Hereinafter, when the Court refers to Defendants or the State, the PSC is excluded. Findings of Fat, Conclusions of Law, and Order – page 87 CDV-2020-307 Every additional ton of GHG emissions exacerbates Plaintiffs' injuries and risks locking in irreversible climate injuries.



CLIMATE CHANGE & HEALTH

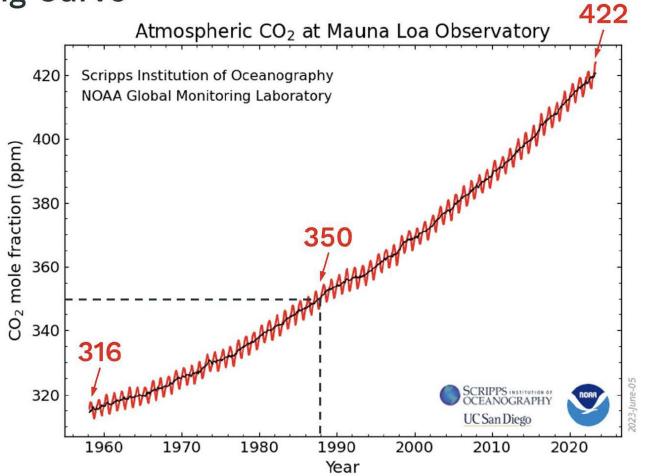
In every rights-based climate case, the judge asks, 'What standard must the court use to assess whether government promotion of fossil fuels—or failure to act on climate change—has breached fundamental rights?' In other words,

'What is *the safe zone*?"

Kelly Matheson

Deputy Director of Global Climate Litigation Our Children's Trust

Keeling Curve



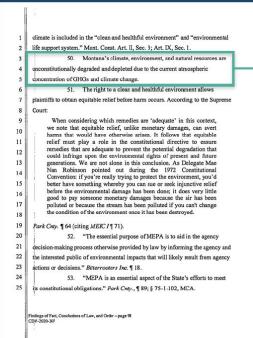
Held v. Montana Steven Running https://gml.noaa.gov/ccgg/trends/ SR-18 **SCIENCE-BASED STANDARDS TO PROTECT CHILDREN'S HUMAN RIGHTS**

<350 ppm CO₂ by 2100

1.5 °C is NOT a safe temperature target

HELD v. STATE OF MONTANA

Plaintiffs Have Proven Constitutional Violation



Montana's climate, environment, and natural resources are unconstitutionally degraded and depleted due to the <u>current</u> atmospheric concentration of GHGs and climate change.



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Montana judge hands young plaintiffs significant victory in landmark climate trial

Crime + Justice Energy + Environment Extreme Weather

Youths sued Montana over climate change and won. Here's why it matters.

Judge sides with 16 activists in Montana climate case

BBC

The New Hork Times

Youths in a Landmark Climate Case

Judge Rules in Favor of Montana

Space + Science



Held v. Montana Medical Professionals Amicus Brief

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Juliana v. United States of America

BALLEN



Exacerbated medical conditions



Damage to property

Psychological harm

JULIANA V. UNITED STATES America's Climate Case

District Court Sets *Juliana* Back on Track for Trial!

Does the U.S. Fossil Fuel Energy System Violate Plaintiffs 5th Amend. Rights to Life, Liberty, Personal Security?

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PG-15 FEDSOC STUDY BREAK EXTENDED SEQUENCES OF INTENSE LEGAL ANALYSIS AND EXHILARATING LEGAL EXPERIENCE



"My number 1 priority from day one was to kill Juliana v. United States."

- Eric Grant, Former Deputy Assistant Attorney General, U.S. Department of Justice

"Every year that passes, I see things getting worse in my state and in my community from climate change The clock is ticking against me and my co-plaintiffs, and our future.

I find it very frustrating that my government keeps making the problem worse instead of fixing it. While I try to keep myself busy, I can't escape my anxiety that exists."

> Miko Plaintiff, Juliana v. US

The truth is, I have been displaced by climate change from my home and my community, and the beach and ocean that are part of who I am."

CHANGE

Plaintiff, Juliana v. US

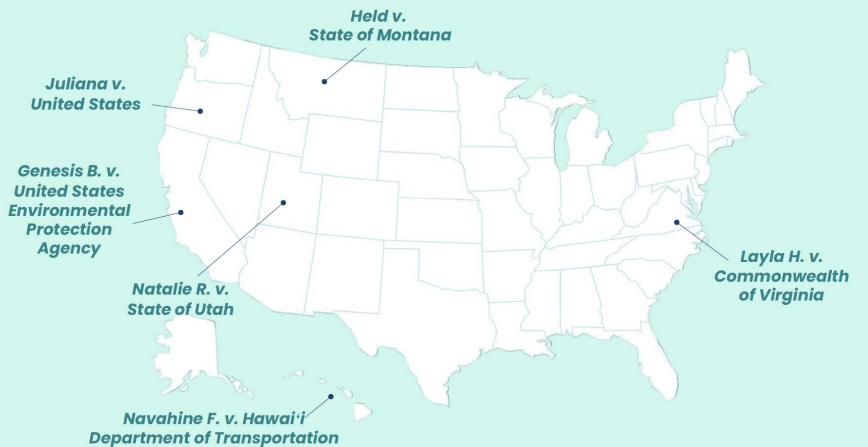
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YOUTH-POWERED LITIGATION IN THE U.S.



Layla H. v. Commonwealth of Virginia Oral Arguments March 12, 2024, Richmond, VA

Photo: Robin Loznak



Natalie R. v. State of Utah In the Utah Supreme Court

hoto: Robin Loznak



WORLD-POWERED HUMAN RIGHTS DEFENDER

México

Acción Por El Clima Baja California Jóvenes

Case on behalf of 15 youth elevated to Mexico's highest court, the Supreme Court of Justice of the Nation. Plaintiffs are represented by Defensa Ambiental del Noroeste (DAN).

Acción Por El Clima Baja California Sur Generaciones Futuras

DAN's case on behalf of 23 children elevated to Mexico's highest court, the Supreme Court of Justice of the Nation.

Costa Rica

Request for Advisory Opinion on the Climate Emergency and Human Rights

Young people together with medical professionals submitted brief to IACtHR affirming that best available climate and medical science is key to protecting children's rights.

Switzerland

General Comment No.26 on Children's Rights and the Environment with a Special Focus on Climate Change

Submitted comments to the United Nations Committee on the Rights of the Child recommending that best available science be used to protect children's rights in the context of climate change.

KlimaSeniorinnen v. Switzerland

Granted permission to intervene in the first climate cases before the ECtHR. Submitted a brief affirming that best available science concludes that heatwaves threaten the right to life.



Request for Advisory Opinion on Climate Change and International Law

24 youth from 6 U.S. states and 6 Canadian provinces submitted brief to ITLOS affirming climate science is key to protecting oceans and marine environments.



La Rose v. His Majesty the King

Argued case brought by 15 youth plaintiffs from 7 provinces before a Federal Court of Appeal panel, seeking reversal of lower court order precluding the constitutional climate claims from being heard at trial. Plaintiffs are represented by Arvay Finlay LLP, Tollefson Law Corporation, and supported by David Suzuki Foundation and Pacific Centre for Environmental Law and Ltigation.

Portugal

Duarte Agostinho v. Portugal and 32 Others

Granted permission to intervene in the first climate cases before the ECtHR. Submitted a brief affirming that best available climate science is key to protecting children's rights.

France

Carême v. France

Granted permission to intervene in the first climate cases before the ECtHR. Submitted a brief affirming that best available science finds that climate change threatens coastal communities.

Mbabazi & Others v. The Attorney General and National Environmental

Management Authority

Uganda

Ongoing exchanges with the Court on behalf of 4 youth to enforce their constitutional right to a clean and healthy environment, and the government's duty to protect shared natural resources. Youth plaintiffs are represented by Greenwatch.

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USE YOUR VOICE

and share your perspective, that's a way to make a difference. You never know how much you're going to impact another person.

-Kalālapa



Make a Donation to Our Children's Trust!





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Thank you.

Julia Olson Executive Director & Chief Legal Counsel Our Children's Trust

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