CLIMATE HISTORY NEWS

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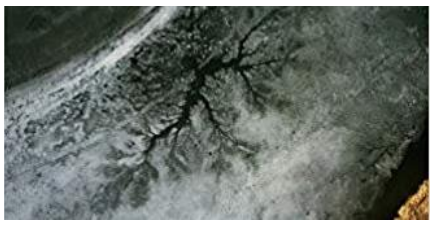
PAST



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CLIMATE HISTORY NEWS IS THE QUARTERLY NEWSLETTER OF THE CLIMATE HISTORY NETWORK
– A NETWORK OF INTERDISCIPOLINARY SCHOLARS STUDYING PAST CLIMATE CHANGE –
TO CONTRIBUTE EMAIL NJCUNIGAN@GMAIL.COM

Vol. 6, Issue 1: Year in Review 2020

Letter from the Founders

Dagomar Degroot

Sam White

Dear Colleagues,

It's been a while! The onset of the pandemic early in the year imposed new burdens on all of us, so we decided to postpone our next newsletter until the worst was over. The worst, of course, is far from over today, though a light seems to be brightening at the end of the tunnel. And now we have reached the end of the year; an update, clearly, was needed.

Few of us will miss 2020, but the year has offered a sobering and perhaps necessary reminder of the power with which environmental shocks can transform our world. It was a reminder not confined to the pandemic; wildfires and typhoons, for example, confirmed the magnitude of the environmental disruptions that even a one-degree shift in average global temperatures can bring about. It would not be surprising if the year encourages renewed interest in the impact of such changes on our past – and the likelihood of even more destructive changes in our future.

Certainly our field seems to be growing by leaps and bounds. By using data from an important article recently published by Fredrik Charpentier Ljungqvist, Andrea Seim, and Heli Huhtamaa (see below), and adding data from our own Zotero Database at ClimateHistory.net, I found that the pace of publications in our field has soared in the last decade. As the bibliography we've attached confirms, many of us have been very productive even amid the difficulties of this year.

Our outreach to the public also continues unabated. Influential articles by climate historians, historical climatologists, and paleoclimatologists have helped shape public discourse this year, as we've catalogued in our "best of the web" series at HistoricalClimatology.com. And in November our podcast, Climate History, passed 40,000 downloads on SoundCloud alone.

Wishing you all a restorative holiday season, and a brighter 2021,

Dagomar Degroot & Sam White

Climate History Podcast – New Episodes!

Climate History features interviews and discussions about the history of climate change. Conversations consider what the past can tell us about our present and future. It is hosted by Dr. Dagomar Degroot, associate professor of environmental history at Georgetown University, and Emma Moesswilde, a PhD student in environmental and climate history at Georgetown. Click here to subscribe to the podcast on iTunes. If you don't have iTunes, you can listen here. See below for descriptions of the latest episodes!

Tree Stories: What the Rings in Trees Reveal About Climate Change

In the 12th episode of Climate History, co-hosts Dagomar Degroot and Emma Moesswilde interview leading tree ring scientists Amy Hessl (West Virginia University) and Valerie Trouet (University of Arizona). Both Hessl and Trouet have scoured the world to measure the growth rings in trees, which they use to uncover ancient climate changes that likely influenced the fate of past societies. In a wide ranging conversation, Trouet and Hessl describe the nature of this work and its key lessons for the present. Trouet also introduces her new book, "Tree Story," which chronicles her career and explains the basics of tree ring science to the general public.

COVID and Climate Change: Reflections on the Pandemic, the Past, and the Future

In the 13th and most unusual episode of Climate History, co-hosts Dagomar Degroot and Emma Moesswilde share their reflections on the Covid-19 pandemic in light of their expertise as environmental historians. Among other topics, Degroot and Moesswilde discuss how historians might someday write about the pandemic, the parallels between Covid and climate reporting, and how (and how not) to draw lessons from the era of social distancing for the fight against climate change.

Climate Change in the Ancient World: Volcanoes, Rebellions, and Lessons from the Distant Past

In the 14th episode of Climate History, co-hosts Dagomar Degroot and Emma Moesswilde interview Joseph Manning, the William K. and Marilyn Milton Simpson Professor of Classics at Yale University. Professor Manning is a leading expert on the law, politics, and economy of the ancient world, particularly the Hellenistic Period (between 330 and 30 BCE). In recent years, he's led efforts to uncover a link between volcanic eruptions, climatic shocks, and rebellions in ancient Egypt: efforts that inspired headlines in the Washington Post, the New York Times, and elsewhere. Professor Manning explains how his team uncovered the influence of climate change in Egyptian history, and what the ancient world has to tell us about our uncertain future.

Teaching Across Disciplines: Reimagining University Education for Today's Multidisciplinary Problems

In the 15th episode of Climate History, co-hosts Dagomar Degroot and Emma Moesswilde interview Kathryn de Luna, Provost's Distinguished Associate Professor in the Department of History at Georgetown University. Professor de Luna combines paleoscience, archaeology, and historical linguistics to explore the deep history of eastern, central and southern Africa before the 20th century. At Georgetown, she is on the cutting edge of developing new courses and teaching methods that introduce students to ways of understanding the past that go well beyond the traditional practice of history. In this episode, Professor de Luna describes the courses she teaches; outlines the potential and peril of multidisciplinary learning; and gives concrete advice for how to make university education truly multidisciplinary.

Pandemics and Climate Change: What History Tells Us About Today's Greatest Challenges

In the 16th episode of Climate History, co-hosts Dagomar Degroot and Emma Moesswilde interview professor Timothy Newfield, a climate historian and historical epidemiologist in the departments of history and biology at Georgetown University. Professor Newfield explains how he landed in two very different departments, in two very different fields, and introduces the discipline of historical epidemiology. He describes how historical epidemiologists can identify past diseases and their social consequences, then considers what history can reveal about today's COVID-19 pandemic. Finally, he reflects on the links between climate change and disease, past and present, and on the limitations of public discourse about today's biggest environmental challenges.

Pandemics, Empires, and the Lessons of History

In the 17th episode of Climate History, co-hosts Dagomar Degroot and Emma Moesswilde interview PhD candidate Emily Webster of the Department of History at the University of Chicago. Webster's trailblazing scholarship combines environmental history, the history of science, and medical history to transform understandings of disease in the British Empire. Among other topics, Webster discusses what history can reveal about the unequal impacts of environmental change on marginalized communities, and how it can shed light on connections between apparently isolated environmental crises. She also describes how history can inform public discourse on COVID-19; and identifies the impact of our present pandemic on higher education - particularly graduate students.

Making Climate Policy: What's Working, and Where We Should Go Now

In the 18th episode of Climate History, co-hosts Dagomar Degroot and Emma Moesswilde interview Vicki Arroyo, Executive Director of the Georgetown Climate Center and Professor from Practice at Georgetown Law. Professor Arroyo explains which climate policies have worked across the United States, and identifies where emissions reductions will be hardest to achieve. She emphasizes a pressing need for greater adaptation across America, and describes which policies the Biden Administration should pursue to confront the Climate Crisis.

Upcoming Events

Cultural Perceptions of Safety (21-22 January 2021) - Virtual

The Humanities Department of the Open University of the Netherlands organizes the international conference: 'Cultural perceptions of safety. Reflecting on modern and pre-modern feelings of safety in literature, philosophy, art and history' on 21-22 January 2021. The conference will be held in Utrecht, at the Academiegebouw, and is supported by the Huizinga Institute (Research Institute and Graduate School of Cultural History). The organizers are looking for papers that address the topic of eco-anxiety and questions such as: How is the feeling of safety affected by the existential challenge of climate change? How does the phenomenon of eco-anxiety prevail in cultural expressions of safety? Is this form of anxiety a typical current societal discourse of safety or does it have its own history?

For more information see the website: https://www.ou.nl/web/cultural-perceptions-of-safety/

ASEH - Postponed

The American Society for Environmental History has postponed the April 2021 conference in Boston, Massachusetts due to COVID-19. However, they have announced Environmental History Week as a replacement for the conference. See below for more details on how you can get involved.

European Geophysical Union (19-30 April 2021) – Virtual

The European Geophysical Union annual assembly will be online this year 19-30 April 2021, including sessions from PAGES working groups and sessions on climate and society. The abstract deadline is 13 January 2021. More information can be found here.

Shifting Frontiers XIV: Scale and Study of Late Antiquity (3-5 June 2021) – Virtual

For the Fourteenth Meeting of the Society for Late Antiquity, we invite papers that investigate scale, which can be defined as a graduated range of values or measurements, whether, for example, of time, space, social organization, cosmology, or agency. Participants are encouraged to explore scale either as a methodological framework used by modern historians to interpret the past and/or as a type of late Roman analytic category, developed and employed by late ancient persons for their own heuristic purposes. Questions papers might ask include: To what extent does the world of Late Antiquity look different if we approach its events, institutions, and processes (whether political, economic, social, or religious) from a micro scale rather than a macro scale, and vice versa? How can we better understand the late Roman Empire through the examination of macro- and micro-scalar environmental phenomena, such as volcanic eruptions and mutating plague DNA, which were only partially (if at all) perceptible to the late Romans themselves? Alternatively, what graduated categories of measurement and values did late ancient thinkers deploy in their philosophical, scientific (including astrological), and religious works to make sense of metaphysical, ethical, or even physical quandaries? And what did scale mean to individuals on an everyday level, for agriculturalists or merchants whose livelihoods were embedded within multi-scalar economic,

environmental, legal, social, and religious networks? Other papers might consider the fractal replication of structures and relationships across the Empire, for example in conciliar operations (Senate, local curia, church councils), patterns of deference across the social scale, or in the provincial extensions of imperial authority. Comparativists are encouraged to consider how problems of scale inflect transhistorical arguments that encompass both late antiquity and other periods of history. More information can be found here.

26th ICHST Conference (25-31 July 2021) - Virtual

The ICHM has opened calls for papers for three symposia at the upcoming 26th ICHST Conference, Prague 25-31 July 2021. The deadline for submission of stand-alone abstracts has been extended to 10 January 2021.

PAGES Open Science Meeting and Young Scientists Meeting – Postponed until May 2022

PAGES' premier science conferences, the Open Science Meeting (OSM) and Young Scientists Meeting (YSM), are held every four years. Due to COVID-19, the 2021 conference has been postponed until May 2022. This decision will be reassessed in mid-2021. http://pages-osm.org

Calls for Proposals

Arcadia

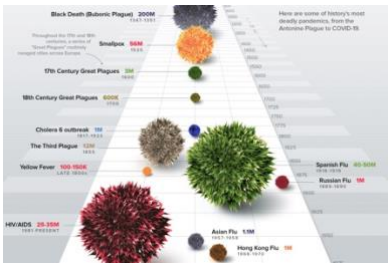
Founded as a partnership between the European Society for Environmental History (ESEH) and the Rachel Carson Center, Arcadia is an online, peer-reviewed publication platform for short, illustrated, and engaging environmental histories. An Arcadia article tells a short (about 750 words) focused, engaging environmental history about any site, event, person, organization, or species as it related to nature and human society.

To submit, simply send a filled-out version of this form together with your draft submission to *Arcadia's* managing editor, Jonatan Palmblad (arcadia@carsoncenter.lmu.de)—guidelines are included in the form. Your email should also include 2–5 images and/or multimedia (with permissions if necessary) and a profile photo. Complete submissions are assigned to two anonymous peer reviewers chosen for their expertise in a field related to the submission, often at the suggestion of the board. We also encourage authors to suggest potential reviewers as an option—they may or may not be contacted. We ask for reviewers to send feedback within one month. If reviewers request revisions, we will ask you to address these within two weeks. For accepted manuscripts, copy editing will be provided.

Please note that, due to increased popularity, accepted submissions may be published in later volumes. While submissions can be made at any time, we are concentrating the review process around three seasonal volumes. *Arcadia* requires no submission fees or article processing fees, and is published open-access under a Creative Commons CC-BY license. With submissions or any questions, please email Jonatan Palmblad at arcadia@carsoncenter.lmu.de. More information is available here.

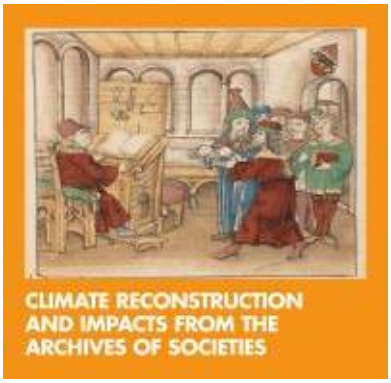
Announcements

CCHRI Historical Pandemics Seminar Series



In partnership with Climate Change and History Research Initiative and with the support of the Humanities Council, Princeton University's Program in Medieval Studies launched a new seminar series that examined the historical context and the social, cultural, and environmental impact of pandemics through the ages. The virtual series entitled "Pandemics in the Past: from Prehistory to (almost) the Present" featured guest scholars from across U.S and Europe. The series is now available to access online here.

Past Global Change Magazine issue on Historical Climatology



The latest *Past Global Changes Magazine* "Climate Reconstruction and Impacts from the Archives of Societies" is now available to read online and download here.
This issue of *Past Global Changes Magazine* presents papers on the current state of research in several world regions, as well as on new methods and the analysis of new sources in the field. It is a product of the PAGES Climate Reconstruction and Impacts from the Archives of Societies (CRIAS) working group: http://pastglobalchanges.org/crias CRIAS will hold its next workshop online 19-20 March 2021.

Environmental History Week (19-26 April 2021)

Environmental History Week is an international celebration of environmental history, organized by environmental historians of all stripes to foster scholarly collaboration, academic research, teaching and public awareness of environmental history. Environmental History Week is April 19-26, 2021.

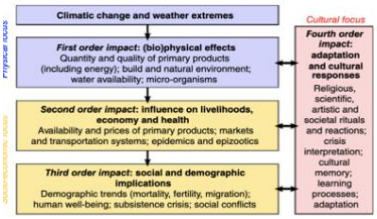
Environmental History Week events can take many forms. In person, face-to-face events could be all-day mini-conferences; environmental history lectures on a campus or at a public library or museum; student presentations at a student research symposium; film series with audience discussions; field trips or tours, or hands-on projects in collaboration with non-profits in your area; or a teacher training program for local K-12, community college, or graduate students. Digital events could be virtual conferences conducted on an online, video conference platform; streamed films with online discussions; self-guided field trips; or a virtual museum exhibit.

Programs for all audiences are welcome. If you have other ideas for events, please share them.

Already planning an event for Earth Day 2021? Fill out the form and add it to the Environmental History Week events calendar.

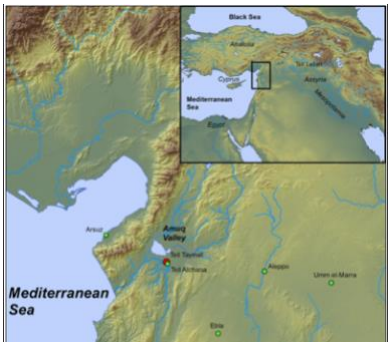
Research Highlights

Climate and Society in European History



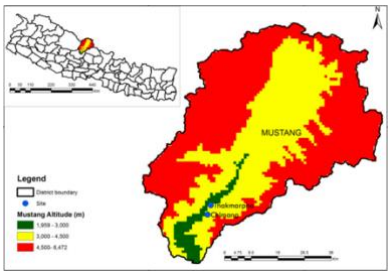
A new state of the field article in WIREs Climate Change identifies the opportunities and challenges facing historical climatologists working on Europe. These researchers point to a divergence in how writers from different disciplines treat causality and integrate information from other disciplines as grounds for greater interdisciplinary collaboration. They also propose a taxonomy for understanding the consequences of climate and extreme weather events. Read the entire article here.

Beyond megadrought and collapse in the Northern Levant: The chronology of Tell Tayinat



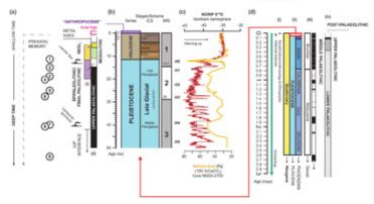
A new article on the site of Tell Tayinat in southwestern Turkey offers a new view on how the site's inhabitants experienced climatic instability during the boundaries of the Early and Middle Bronze ages and the Late Bronze and Early Iron Age. Among other findings, the authors report that the local population appears to have flourished during these eras where the eastern Levant more broadly is said to have been undergoing a period of collapse. Instead, they find evidence of Tell Tayinat's integration into long-range trade networks and agricultural prosperity, suggesting it may have acted as a "refugia" while other sites experienced climatic crisis. Read the full article here.

Age-dependent growth responses to climate from trees in Himalayan treeline



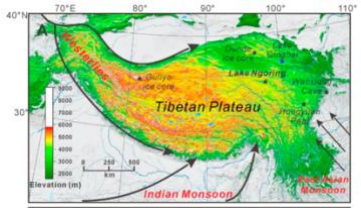
A new study analyzes the link between temperature and moisture in dendrochronological records, finding that a tree's age plays a noticeable role in how sensitive a record is to each variable. Analyzing ***Abeis spectabilis*** trees from the treeline ecotone of central Nepal, the author found that spring growth in mature trees was most sensitive to differences in precipitation and that juveniles were more sensitive to variations in temperature. Read the full paper here.

Paleoenvironmental humanities: Challenges and prospects of writing deep environmental history



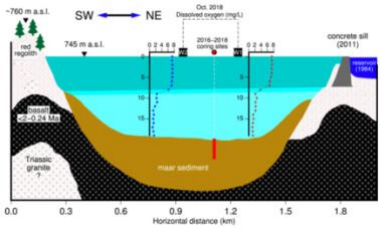
S.T. Hussain and F. Reide's new article in WIREs Climate Change outlines the potential benefits of using archaeological evidence to investigate what the authors call paleoenvironmental humanities. Archaeological records contain lengthy chronologies of human-environmental interactions and can provide a wealth of information about how humans have adapted to changing or difficult conditions in the past. They point in particular to the paleolithic era, comprising thousands of years and dramatic fluctuations in the climate systems. The authors also argue that these narratives are useful for critiquing narratives of climate determination or irrelevance in the present. Read the full article here.

Environmental and Climatic Changes in the Source Area of the Yellow River for the Last 1500 Years



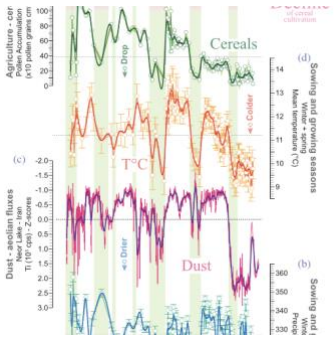
A new climate record from the Qinghai-Tibetan Plateau suggests that the hydrologic record of the area is linked to changes in the Indian Monsoon and Westerlies. Drawing from lacustrine sediment cores in the source area of the Yellow River, the 1500-year record reflects the major global climate phases of the period covered by the study and correlates with other paleoclimate records from the region. These hydrological and climate variables are also studied in conjunction with changes to the chemical composition of the water and the organic matter contained within it. Read the full study here.

Environmental history recorded over the last 70 years in Biển Hồ maar sediment, Central Highlands of Vietnam



A new study of a volcanic crater lake in Vietnam's central highlands analyzes sediment cores from the Biển Hồ maar. These geochemical and sedimentological analyses show increases in sedimentation rates during the time of US military activities in the 1960s-70s, a decrease in sedimentation correlating with reforestation projects around the rim during the 1990s, and a drop in nutrients when a concrete sill was installed to limit water exchange ten years ago. Set alongside other data, this record will also provide calibration for producing longer records from the maar. Read the full study here.

Climate Change and Social Unrest in the Eastern Mediterranean

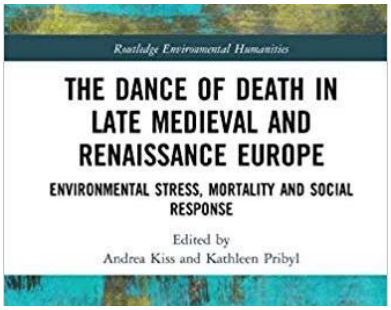


A new study from a consortium of European researchers analyzes a pollen record from Cyprus alongside the historical record, finding a correlation between climate events like recurrent cold periods and changing precipitation and destabilizing events like outbreaks of disease and social unrest. Periods of ecological stress were correlated with the abandonment of large cities and the growth of small villages, suggesting social fission. The authors also suggest that the climate instability reflected in the pollen record may have contributed to the collapse of a number of larger polities. Read more here.

Swiss Volkskalender of the 18th and 19th Centuries

New research appraises the use of the Swiss ***volkskalender*** as a source for popular perceptions of climate history. Analyzing the mass-produced ***Appenzeller Kalender*** between 1722-1865, Isabelle Vieli shows how events ranging from thunderstorms to unseasonal snowfall and comets were represented in the years afterward. Read it in full here.

New Books on Medieval Climate History



Two new edited volumes on environment stress, climate, and societal response came out in late 2019, included new research by a number of collaborators in this network: Martin BauchSchenk, Gerrit J. Schenk, eds., T***he Crisis of the 14th Century. Teleconnections between Environmental and Societal Change?***, Berlin, 2019 (Das Mittelalter. Perspektiven mediävistischer Forschung. Beihefte, 13). All articles open access here including Bruce Campbell's lecture during the 2016 conference that initiated this volume.

Andrea Kiss and Kathleen Pribyl, eds. ***The Dance of Death in Late Medieval and Renaissance Europe. Environmental Stress, Mortality and Social Response***. Abingdon-on-Thames 2019 (Environmental Humanities). More

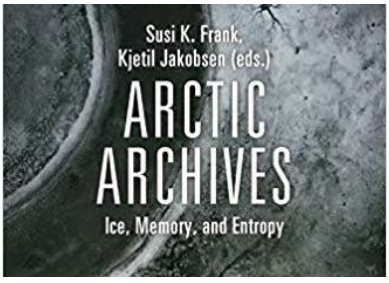
Culture and Climate in China and East Asia

A new article by Fiona Williamson in WIREs Climate Change reviews the literature on climate history in East Asia, highlighting new work that focuses on how climate has impacted culture in the region. Her review of the literature suggest that historical climatology has laid the ground for more fine-toothed analyses of climate history. In so doing, Williamson argues that climate can be used to not only understand the large-scale migrations and regime collapses that it has been used to understand in East Asia, but also how climate has driven changes in regional customs and philosophical systems on a smaller scale as well. Find out more here.

Impacts of Extreme Events on Medieval Societies: Insights from Climate History

A new piece by Martin Bauch reviews the types of sources available to climate researchers interested in the medieval world. Bauch weighs the usefulness of documentary and natural archives and how they can be used complementarily, ending with an analysis of how they might be used to study "compound events" in the past. In doing so, Bauch also challenges the recent assertion that past compound climate events cannot be used as case studies for future ones. Find out more about the piece here.

Natural Archives as Counter Archives



Susi K Frank's new essay "Natural Archives as Counter Archives: Gulag Literature from Witness to Postmemory" brings a view to how natural archives fit into existing archival theory, encouraging readers to see them as subversive inversions of the powers that shape the archives historians are accustomed to using. The author also analyzes how permafrost is represented in two works of fiction by Varlam Šalamov and Sergei Lebedev, showing how it preserves information about the experience of the gulag that the state wished to be forgotten. In this way, natural archives not only preserve information that traditional archives eschew, but also information that undermines dominant power structures.

Feature Articles

Six Droughts between 1302 and 1306: A "1300s Event"?

Martin Bauch, Thomas Labbé, Annabell Engel, Leibniz Institute for the History and Culture of Eastern Europe (GWZO) & *Patric Seifert*, Leibniz Institute for Tropospheric Research (TROPOS)

Recently coined the "1310s event" (Slavin 2018), the wet anomaly of the 1310s has attracted a lot of attention from scholars, who commonly interpret it as a signal of the transition between the warmer Medieval Climate Anomaly to the chilly Little Ice Age in Europe (Campbell 2016). Despite the fact that current worries about global warming have led scholars of premodern climate history to pay increasing attention to drought events (Wetter et al. 2014; Brázdil et al. 2019; Brázdil et al. 2018; on the Middle Ages, Rohr et al. 2018), the subject remains in its infancy. More

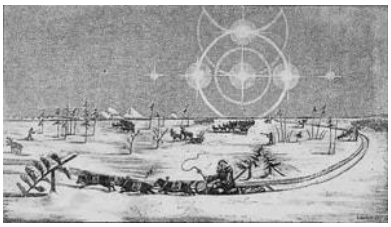
Historical Climate Data Can Improve Our Assessment of Future Climate Risk

Zak Baillie & Joëlle Gergis, Fenner School of Environment & Society, Australian National University

Australia is a land characterised by dramatic climate and weather extremes. Currently, our understanding of the nation's climatic history is mostly confined to official records kept by the Australian Bureau of Meteorology that begin in 1900, despite the fact that observations are available from first European settlement of Australia in 1788. **More**

A Hungry Winter: Colonialism in a Cold Climate

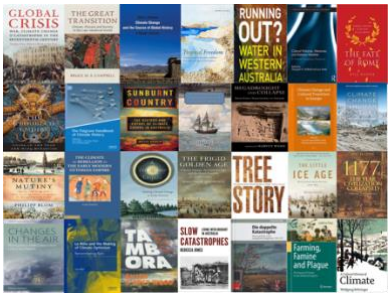
Liza Piper, University of Alberta



Times of hunger and starvation were part of life for northern Indigenous peoples. Dene, Inuvialuit, and Gwich'in shared lessons about planning to avoid starvation, the need to show proper respect and gratitude for good hunts and successful fishing, and how to eat after a period of hunger. **More**

The good, bad, undefined Little Ice Age

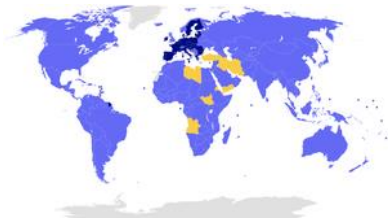
Heli Huhtamaa, University of Bern



The Little Ice Age (LIA), a climatic phase that overlapped with the late-medieval and early modern periods, increasingly interests historians - academic and popular alike. Recently, they have tied the LIA to the outbreak of wars, famines, economic depressions and overall troublesome times. **More**

The Legal Structure of the Paris Agreement – Flexible and Fit or Fragile and Fading?

Lisa Benjamin, Lewis & Clark College of Law



As we enter the 2020s, the backdrop of the climate crisis remains grim. Recent scientific reports tell us that global greenhouse gas emissions are increasing, not declining as they need to. **More**

Are Surveyors' Maps and Journals an Untapped Source for Climate Scientists?

Harriet Mercer, University of Oxford

In early nineteenth century Australia, surveyors were given a near impossible task by colonial authorities. They were asked to use their expeditions to ascertain "the general nature of the climate, as to heat, cold, moisture, winds, rains, periodical seasons." Meeting this directive was difficult because most surveyors did not spend more than a few days or weeks in a location that was unfamiliar to them. More

Best of the Web

January 2020

Emissions - The "Business As Usual" Story is Misleading. *Nature*

Earth's Oldest Asteroid Strike Linked to "Big Thaw." *Science Daily*

Early Climate Models Successfully Predicted Global Warming. *Washington Post*

Why Trees Are the Most Reliable Historians of Early America. *Atlas Obscura*

February 2020

Climate Change Impacts in Bangladesh Show How Geography, Wealth and Culture Affect Vulnerability. *The Conversation*

A Crisis Right Now: San Fransisco and Manila Face Rising Seas. *New York Times*

Ancient Mud Reveals an Explanation for Sudden Collapse of the Mayan Empire. *Get Pocket*

Methane is a Hard-Hitting Greenhouse Gas. Now Scientists Say We've Dramatically Underestimated How Much We're Emitting. *Washington Post*

March 2020

How Artwork Shows the Impact of Climate Crisis on Indigenous Americans. *The Guardian*

What the Coronavirus Means for Climate Change. *New York Times*

A Change of Perspective: Visiting the Places of Your Research. *NiCHE*

Climate Change Has Lessons for Fighting the Coronavirus. *New York Times*

April 2020

Lost Viking "Highway" Revealed by Melting Ice. *National Geographic*

Wildlife Collapse From Climate Change Is Predicted to Hit Suddenly and Sooner. *New York Times*

Diverse Livelihoods Helped Resilient Levänluhta People Survive a Climate Disaster. *University of Helsinki*

May 2020

Telling Time in Antarctica. *Environmental History Now*

New York City Doesn't Have to Suffer This Summer. *New York Times*

Visualizing Science: How Color Determines What We See. *Eos*

Predicting Future Climate Change May Lie in the Past. *The Globe and Mail*

Tunnel Vision: Lessons in the Impermanence of Permafrost. *Undark Magazine*

June 2020

Ancient Rome Was Teetering. Then a Volcano Erupted 6,000 Miles Away. *New York Times*

Why Racial Justice is Climate Justice. *Grist*

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The Climate Change Clues Hidden in Art History. *BBC Culture*

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See the Soft Aquarelle Watercolors That Resulted From Krakatoa's Big Bang. *Atlas Obscura*

In 1674, a Mysterious Storm Devastated an Entire City. *BBC Earth*

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Ancient Genomes Suggest Woolly Rhinos Went Extinct Due to Climate Change, Not Overhunting *Eurekalert!*

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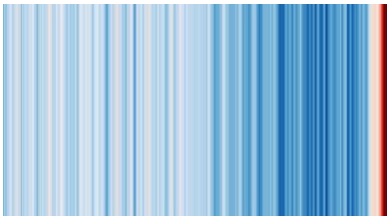

Can Voting Stop Global Warming? *AHA Perspectives*

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Understanding Resilience in the History of Climate Change. *Atlas Obscura*

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The Climate Clues Hidden in Art History BBC Culture

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Contact Information

Co-Founders

Sam White – white.2426@osu.edu

Dagomar Degroot – Dagomar.Degroot@georgetown.edu

Newsletter Editor

Nicholas Cunigan – njcunigan@gmail.com