

PLANETARY HEALTH WEEKLY



CURRENT NEWS ON ECOLOGICAL WELLNESS AND GLOBAL HEALTH

Volume 6, Number 37 <https://planetaryhealthweekly.com> September 10, 2020

Hi, I remember some years ago, probably going on 35, when in graduate school at the University of Toronto, we were feverishly studying 'change' and 'change management'. Believe it or not, this was a new academic subject then and of great interest within the health system, when community health was taking flight and hospitals were trying to become patient centred. Fast forward to today where societal change seems to be a daily occurrence; what else is new! Every week I'm talking about some sort of change, but what struck me in the last few days was how our vocabulary is changing too, with old words taking on new meaning.

Take, for example, the 'long hauler', which once described a truck driver who made cross country trips or a traveller going great distances around the world. Now it also means someone infected with SARS-CoV-2 who doesn't fully recover in 4-6 weeks, and who retains often very serious physical and mental effects, hoping them to be eventually resolved. Take also the word 'iron-man' which until recently referred mainly to a triathlon sport or the person who participates in such competitions taking their bodies to the limits, or a fictional Marvel Comics superhero. Now, it also means those men who were slavers, colonialists and imperialists of centuries gone by who were depicted in statues and monuments, now being challenged and destroyed.

Who, even last year, would have predicted these two pandemics commanding our attention: COVID-19 and systemic racism. One is new to the world, the other as old as time. But in these days of great uncertainty, dislocation, environmental disaster (just witness the great fires sweeping west coast USA as but one example), stressful school re-openings, and political ignorance, etc. etc. we can and must move forward. We will change what we can, and test our resilience and adapt to what we cannot change, while perhaps even enjoying the small pleasures of life, like roadside beauty (see ENDNOTES).

In today's **Planetary Health Weekly** (#37 of 2020) we are reminded and learn more about many things testing our resilience and resolve. In it you'll find:

- More on the Coronavirus including:
 - Covid-19 creating crisis unemployment and food shortages in Latin America,
 - How the pandemic can mess with your periods,
 - The Covid-recovered heading back to hospitals,
 - How Covid fatalities can remain low when infection numbers are rising,
 - Pasteurizing breast milk may inactivate the virus,
 - How to prevent and treat face 'mascne',
 - Caribbean islands respond to Covid deaths,
 - Black Canadians are hit harder by Covid-19,
 - Canada's new national exposure notification app,
 - A chart showing the 'simple' reason why the Canada-U.S. border can't open, and
 - New university courses focused on Covid-19, THEN
- Greenland's ice sheet lost a record 1 million tonnes per minute last year AND pictures of it happening,
- The last decade was the warmest since the Industrial Revolution,
- Corporate fossil fuel assets are being abandoned by the billions,
- Pandemic delays to global electric vehicle growth though new batteries are coming soon to equalize costs,
- A giant western USA hot spot robbing water,
- New Ebola vaccine found to be safe in humans,
- Why *The Guardian* news service is putting global CO2 levels in its weather forecasts,
- The unraveling of America by Wade Davis, explorer extraordinaire,
- Ending the carbon economy to save the world,
- Stopping birth alerts in Canada that harm Indigenous families,
- Noam Chomsky speaks on climate change,
- A podcast 'Is higher education passing the Covid-19 test?'
- The secret dirty war behind the West's coconut fad,
- Plastic chemicals commonly found in food packaging are accumulating in our bodies,
- People more likely to choose vegetarian meals if meat option is further away,
- Two new books: *Footprints - In Search of Future Fossils* by David Farrier AND *Some Assembly Required - Decoding Four Billion Years of Life, from Ancient Fossils to DNA* by Neil Shubin,
- The pandemic is derailing a generation of our young scientists, and

- ENDNOTES on Highway Ditch Beauty amid Covid-19 charts and stats AND tracking excess deaths.

I hope you'll keep scrolling.

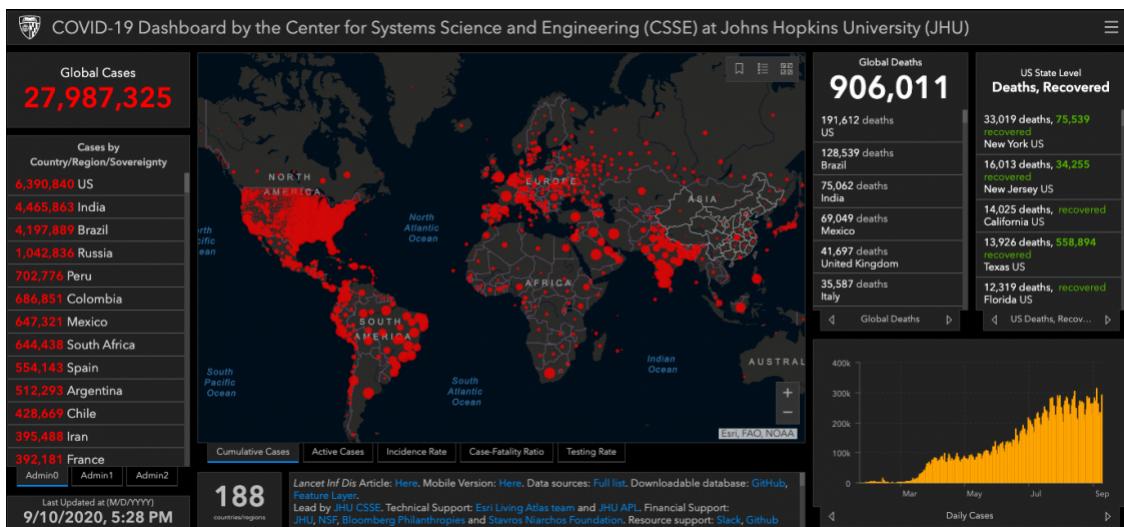
Best, david

David Zakus, Editor and Publisher



PS, Major wind driven fires are raging across North America: in Alaska, Colorado, Idaho, Montana, Nevada, New Mexico, Texas, Utah and Wyoming AND the really big ones in California, Oregon and Washington...We're so lucky so far in Canada!

SARS-CoV-2 & COVID-19 UPDATES



Globally, in the last week, once again, about 1.8 million new cases and 40,000+ new deaths; and over 95,000 new cases in India alone in the last day. (See more stats and charts on

"Excess Deaths" in ENDNOTES at the end of the following stories.)



Covid-19 testing in New Dehli, September 9, 2020

Credit: [The Daily Maverick](#)

As COVID-19 Rocks Latin America, Unemployment And Food Shortages Near A Crisis Point



Credit: Alexandre Meneghini/Reuters

N/A without account . [Read More at The Globe And Mail](#)

MORE COVID-19 STORIES:

At The Chatelaine: [Is The Pandemic Messing With Your Periods?](#)

At Economic Times: [Why Are Covid-recovered Heading Back To Hospitals?](#)

At The Guardian: [Why Do Covid Fatalities Remain Low When Infection Numbers Are Rising?](#)

At Economic Times: [Pasteurizing Breast Milk May Inactivate Novel Coronavirus](#)

At Wired: [How to Prevent and Treat Face Mascne](#)

At NYCaribnews: [Caribbean Islands Respond to Record COVID Deaths](#)

At Economic Times: [People Not Wearing Masks, Maintaining Social Distancing Driving Covid-19 Pandemic in India: ICMR DG](#)

At CBC: [Black Canadians Hit Hard by COVID-19, New National Study Shows](#)

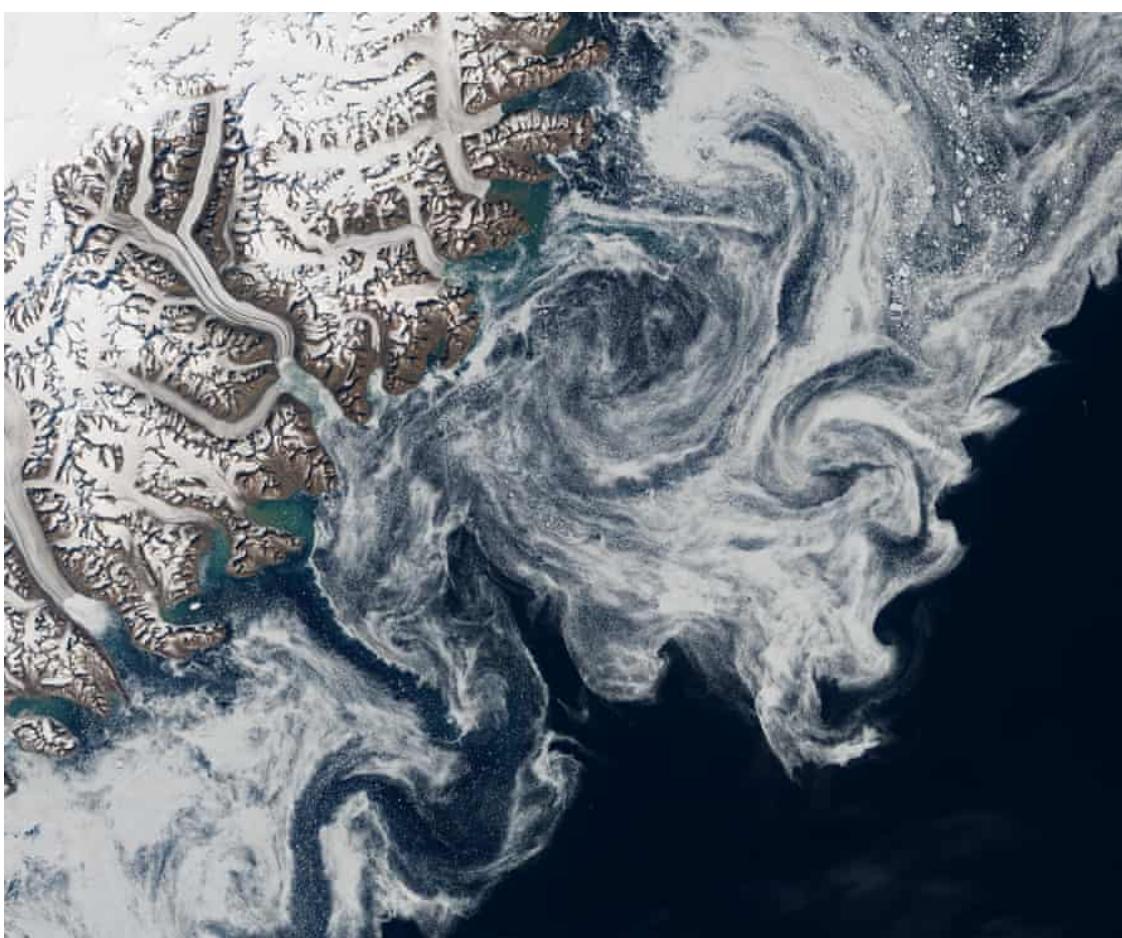
At CBC: [Canada's National Exposure Notification App](#)

At Nation Talk: [No 'Back to Normal' after COVID-19: Health Care Should Shift Focus From Treatment to Prevention](#)

At CTV News: [This Chart Shows 'Simple' Reason Canada-U.S. Border Can't Open, Ontario Premier Says](#)

At CBC: [If You Aren't Sick Of The Pandemic, Ontario Universities Offer COVID Courses This Fall](#)

Greenland Ice Sheet Lost A Record One Million Tonnes Of Ice Per Minute In 2019



Credit: Nasa Handout/EPA

The Greenland ice sheet lost a record amount of ice in 2019, equivalent to a million tonnes per minute across the year, satellite data shows. The climate crisis is heating the Arctic at double the rate in lower latitudes, and the ice cap is the biggest single contributor to sea level rise, which already imperils coasts around the world. The [ice sheet shrank](#) by 532 billion tonnes last year as its surface melted and glaciers fell into the ocean and would have filled seven Olympic-sized swimming pools per second.

The satellite data have been collected since 2003. The 2019 loss was double the annual average since then of 255bn tonnes. Almost that amount was [lost in July 2019 alone](#). [Read More at The Guardian](#)

SEE ALSO:

At Chatelaine: [Greenland's Melting Ice Sheet – In Pictures](#)

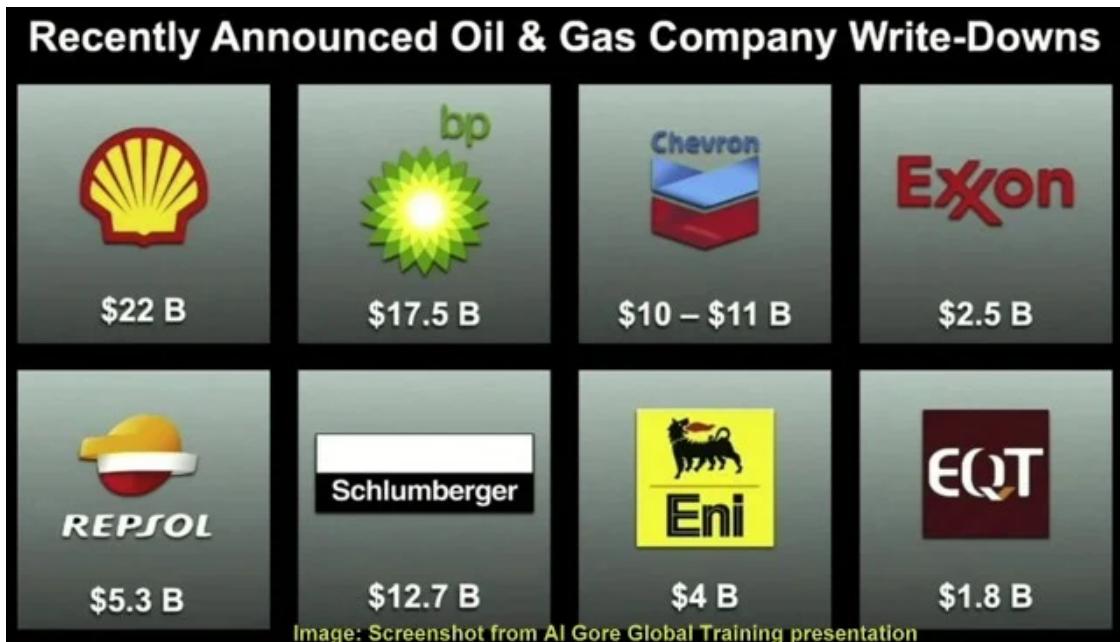
Last Decade Was Warmest Since Industrial Revolution



Credit: AP Photo/Marcio Jose Sanchez

The decade 2010-19 was the warmest since the Industrial Revolution, Sky News reports, picking up what it calls a “bleak new assessment of the state of the global climate” published by the *Bulletin of the American Meteorological Society* (BAMS). Last year was one of the three warmest on record with the last decade some 0.2C hotter than the first decade of the 21st century. According to The [Guardian](#)’s coverage of the report: “The increase in average global temperature is rapidly gathering pace, with the last decade up to 0.39C warmer than the long-term average.”. [Read More at Carbon Brief](#)

The Stranded Asset Parade Of Fossil Fuel Investments Is Starting



"The stranded asset hypothesis [just got real](#)," reported Business Green in early July. "Shell and BP are writing down assets while a raft of US fracking firms are entering bankruptcy protection. Change is coming to the fossil fuel industry faster than anyone expected." Analysts fully expect that more and more big fossil companies will declare "[impairments](#)" in their production and exploration assets in the not-too-distant future. BP and Shell [downgraded the value](#) of their combined assets by as much as US\$39.5 billion in recent weeks.

The fossil fuel sector is starting to recognize that the world is pivoting to low-carbon energy making the risk of stranded assets an inescapable reality. The world cannot develop new resources of fossils and still meet the Paris Agreement target of net zero carbon emissions by 2100. [Read More at Below2c](#)

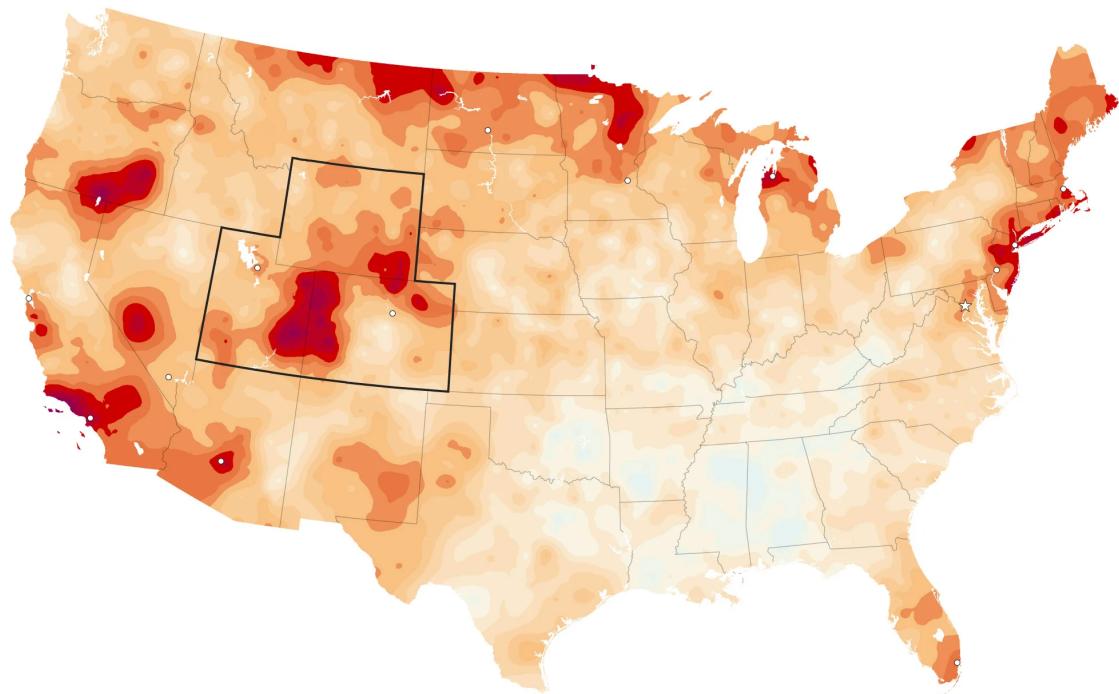
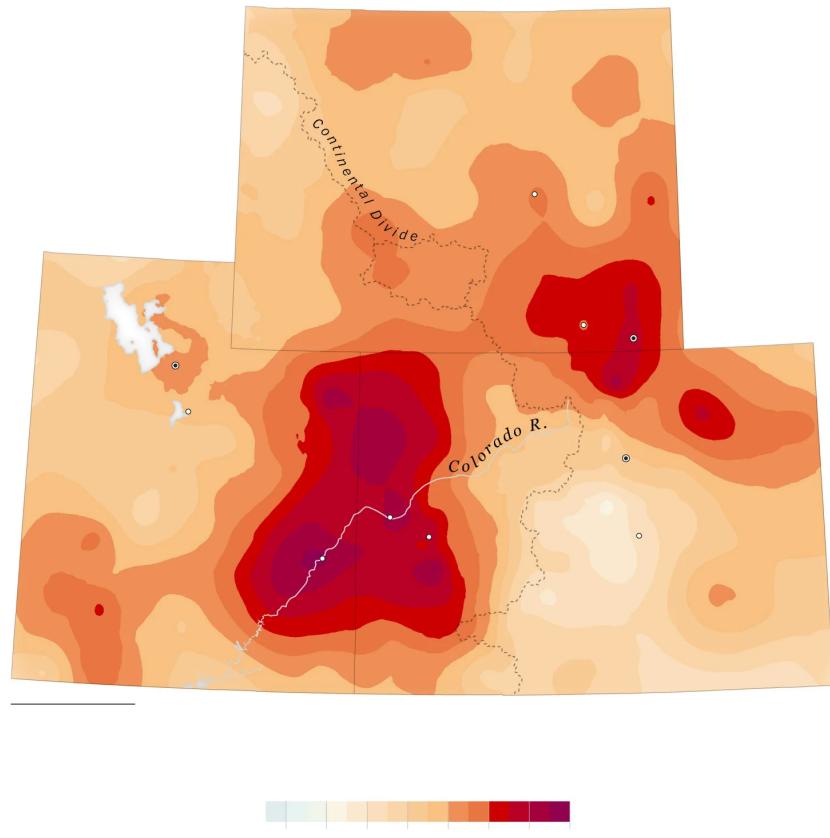
Pandemic Delays Global EV Growth Though 100kwh Battery Will Arrive Earlier



Credit: [Green Car Reports](#)

The coronavirus pandemic will slow global electric vehicle (EV) sales growth, but electric cars will reach a significant affordability target earlier than expected, according to a new report from research firm Wood Mackenzie. "The projected price of battery packs keeps dropping," researchers said, anticipating that the price of battery packs will drop below \$100 per kilowatt-hour by 2024—one year earlier than expected. Most analysts consider that threshold the point at which EVs will achieve price parity with internal-combustion cars. Read More at [Green Car Reports](#).

This Giant Climate Hot Spot Is Robbing The West Of Its Water



Credit: CDC/Frank Hadley Collins

ORCHARD CITY, Colo. — On New Year's Day in 2018, Paul Kehmeier and his father drove up Grand Mesa, Colorado, until they got to the county line, 10,000 feet above sea level. Instead of the three to five feet of snow that should have been on the ground, there wasn't enough of a dusting to even cover the grass. The men marvelled at the sight, and Kehmeier snapped a photo of his dad, "standing on the bare pavement, next to bare ground."

Here, on Colorado's Western Slope, no snow means no snowpack. And no snowpack means no water in an area that's so dry it's lucky to get 10 inches of rain a year. A few months after taking the photo, Kehmeier stared across the land his family had tilled for four generations and made a harsh calculation: He could make more money selling his ranch's water than working his land.

A 20-year drought is stealing the water that sustains this region, and climate change is making it worse. "In all my years of farming in the area, going back to about 1950, 2018 was the toughest, driest year I can remember," said Paul's father, Norman, who still does a fair share of the farm's tractor work at 94. [Read More at Washington Post](#)

GOOD NEWS

New Ebola Vaccine Found To Be Safe In Humans



Credit: Junior Kannah/AFP/Getty Images, FILE

Scientists have developed a new [Ebola vaccine](#) that has been found to be safe for use in humans in a [clinical trial](#). Researchers, including those from Canadian Immunization Research Network (CIRN), found that antibodies are present in participants up to six months after immunization with the experimental [VSV-Ebola vaccine](#). The trial involving about 40 healthy people aged between 18 and 65 years looked at the safety of the vaccine and the lowest dose required for an immune response after injection with one of three doses. At a ratio of 3:1, thirty participants received the vaccine and 10 received placebo injections. Researchers found that adverse events were mild to moderate, with only three severe reactions, including headache, diarrhoea and fatigue, which completely resolved. [Read More at Economic Times](#)

MORE GOOD NEWS

Why The Guardian Is Putting Global CO2 Levels In The Weather Forecast

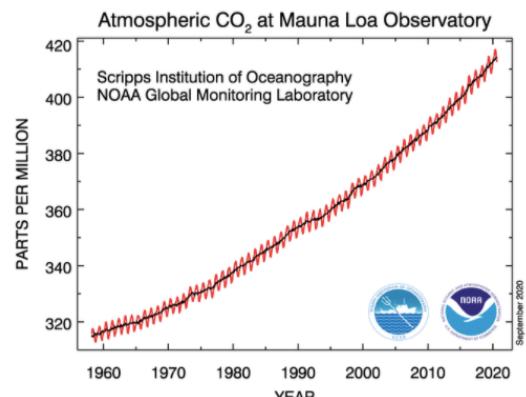
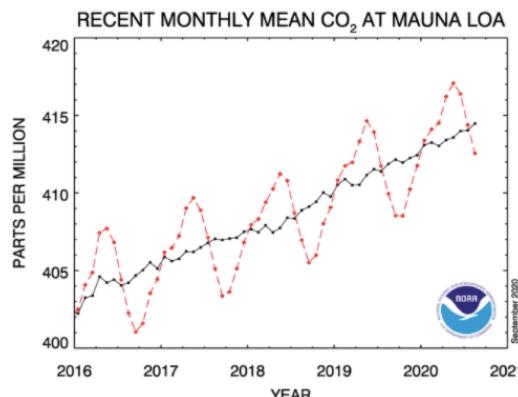


Credit: Courtesy of
NOAA

The simplest measure of how the mass burning of fossil fuels is disrupting the stable climate in which human civilization developed is the number of carbon dioxide molecules in the atmosphere. Today, the CO₂ level is the highest it has been for several million years. Back then, temperatures were 3-4C hotter, sea level was 15-20 metres higher and [trees grew at the south pole](#). Worse, billions of tonnes of carbon pollution continues to pour into the air every year and at a rate [10 times faster](#) than for 66 million years.

At the dawn of the industrial revolution, CO₂ was at 280 parts per million (ppm) in the atmosphere. By 1958, when the first measurements were made at Mauna Loa in Hawaii, it had reached 315ppm. It raced past 350ppm in 1986 and [400ppm in 2013](#). The Guardian will now publish the [Mauna Loa carbon count](#), the global benchmark, on the weather page of the paper every day. [Read More at The Guardian.](#)

August 2020: 412.55 ppm
 August 2019: 409.95 ppm
Last updated: September 9, 2020



Source: NOAA, USA

OPINION

The Unraveling Of America; Anthropologist Wade Davis On How COVID-19 Signals The End Of The American Era



Credit: Gary Hershorn/Getty Images

The COVID pandemic will be remembered as such a moment in history, a seminal event whose significance will unfold only in the wake of the crisis. It will mark this era much as the 1914 assassination of Archduke Ferdinand, the stock market crash of 1929, and the 1933 ascent of Adolf Hitler became fundamental benchmarks of the last century, all harbingers of greater and more consequential outcomes.

COVID's historic significance lies not in what it implies for our daily lives. Change, after all, is the one constant when it comes to culture. All peoples in all places at all times are always dancing with new possibilities for life. As companies eliminate or

downsize central offices, employees work from home, restaurants close, shopping malls shutter, streaming brings entertainment and sporting events into the home, and airline travel becomes ever more problematic and miserable, people will adapt, as we've always done. Fluidity of memory and a capacity to forget is perhaps the most haunting trait of our species. As history confirms, it allows us to come to terms with any degree of social, moral or environmental degradation. [Read More at Rolling Stone](#)

SPOTLIGHT ON POLICY

To Save Our World, We Must End The Carbon Economy



"The carbon economy amplifies racial, social and economic inequities, creating a system that is fundamentally incompatible with a stable future," says a recent [opinion](#) piece in *The Guardian*. The article highlights an open letter by over 100 economists calling for a green recovery that will replace the carbon economy.

"As the undersigned experts in economics, we call on our policymakers to recognize the role that meaningful climate action has to play in rebuilding our world – to recognise that a healthy economy and society require a healthy planet."

Leaders in the field — including a Nobel Laureate and former Sec. of Labor — urge divestment, active phaseout, and understanding of the connection between racism, COVID-19 and climate

On Tuesday, August 4th *The Guardian* published an open letter entitled "[To Rebuild our World End the Carbon Economy](#)," signed by over 100 economists. The statement, notable for its bold prescription of climate action aimed at ending fossil

fuel reliance, was signed by leading experts in the field, including Jeff Sachs and Nobel Laureate Joseph Stiglitz of Columbia, Mariana Mazzucato of UCL, Darrick Hamilton of OSU, Dani Rodrik of Harvard, Gernot Wagner of NYU, and former US Secretary of Labor Robert Reich of UC Berkeley. [Read More at Below2c.](#)

SPOTLIGHT ON INDIGENOUS WELLNESS

Birth Alerts In Canada Are Discriminatory And Need To Stop



Credit: iStockphoto

The Government of British Columbia has [put an end to "birth alerts"](#)— a practice that allows hospital staff to alert child welfare workers that a newborn may be at risk for harm, without informing expectant parents. This practice, which can lead to traumatic child apprehensions soon after delivery, disproportionately impacts Indigenous women. By ending this practice, B.C.'s action marks progress towards delivering on the Truth and Reconciliation Commission of Canada's [Calls to Action](#) on child welfare, and specifically the first Call to Action—to reduce the number of Indigenous children in forced care. [Read More at Today's Parent.](#)



Credit: National Observer

Quote Of The Week

"We are not going to escape from the melting of the polar ice caps, the rise in sea levels and the other extremely harmful consequences of global warming. The major country in the world, the United States, happens to be in the hands of someone, in fact a party, that wants to exacerbate the crisis. They want to make sure that (the coming crisis is) as severe as possible and as imminent as possible and are putting all their efforts into that right as we speak. If we want that to happen, we can watch and not react. Canada is hardly blameless in this."

"Hitler was maybe the worst criminal in human history. He murdered my extended family, Slavs, Roma, homosexuals...it's pretty evil. But what does Trump want to do? He wants to destroy the prospects for all organized human life. And in the near future. That's what it means to maximize the use of fossil fuels, to cut regulations that might diminish or restrict that danger."

"It's the Greta Thunbergs and the 14-year-olds whose world is being destroyed, and they're on the front line of trying to save it and the older generation is betraying them."

Noam Chomsky, legendary linguist and intellectual, in conversation with Linda Solomon Wood in a live Zoom call on April 23, 2020

To read more and to watch the video conversation at the National Observer: [**Flaws in neoliberal capitalism exposed by COVID-19**](#)

[Read More at National Observer](#)

Upcoming Events

- September 22nd - 23rd: U.N. [Summit on Biodiversity](#) (New York City, USA)
- October 19-22, 2020 (Virtual): Canadian Conference for Global Health: Global Health In A Changing Climate
- November 9th-19th: [2020 UN Climate Change Conference](#) (UNFCCC COP26) (Glasgow, Scotland) - **Postponed until latter 2021**
- November 14th - 15th: [Results Canada's National Conference \(Virtual\)](#)
- March 12th-14th: [Consortium of Universities for Global Health Virtual Conference](#)
- June 7th-9th 2021: [Executive Course: Global Health Diplomacy](#) (University of Toronto, Canada)

FYI#1 SPOTLIGHT ON MEDIA

Can Higher Education Pass The Covid-19 Test? (30 minute Podcast)



Credit: Economist Radio

We speak to Janet Napolitano, former president of the University of California and the first woman secretary of homeland security under Barack Obama. The world's universities face a new academic year like no other. Anne McElvoy asks Janet Napolitano, until recently president of the sprawling University of California system, [whether higher education can pass the test of Covid-19](#). Can universities survive without legions of high-paying international students, and convince increasingly sceptical young people that their [degrees are worth the investment?](#)

Runtime: 30min

[**Listen at The Economist**](#)

FYI #2

The Dirty Secret Behind The West's Coconut Fad



Credit: Jervis Gonzales

In the West, coconuts are hot. Go to any trendy health food store or restaurant in London, San Francisco or New York, and you'll find organic raw coconut water and vegan ice cream made with coconut products. The coconut is seen as a healthy, environmentally friendly alternative to palm oil, a common ingredient in everything from shampoos to cookies and frozen desserts.

Yet for 29-year-old Ricky Veraya, a coconut farmer in the northern Philippines island of Luzon, that boom in interest has a bitter taste — his income has shrunk by half over the past five years. Veraya painstakingly chops up hundreds of coconuts every day and heats them over an open, outdoor fire, sweating profusely and breathing in smoke. But he makes only 15 Philippine pesos, or 40 cents, for the hours-long work it takes to produce a kilo of copra, the dried kernel of the fruit from which coconut oil is extracted. His hairline is receding, and his dreams are fading: Veraya is unable to save enough to replace tin sheets with a permanent roof for his two-room home where he, his wife and their two young children live without electricity or running water. "It's hard ... when you see how much work we put in, but we only get paid so little," Veraya says. "That's what most farmers are crying about, the low prices of coconuts."

FYI #3

Plastic Chemicals Common In Food Packaging Are Accumulating Widely In The Human Body



Credit: Everyday Plastic/PA.

Plastic chemicals that are common in food packaging, toiletries and mobile phones are accumulating widely in tissues throughout our bodies, a new study suggests. An analysis of 47 tissue samples taken from human lungs, livers, spleens and kidneys found that all were contaminated with BPA, a component of plastic that is known to be an 'endocrine disruptor', affecting fertility. Apart from being harmful in its own right, the widespread presence of this and another common plastic ingredient – the flame retardant TBBPA – in the body will fuel concerns that some of the tiny microplastic fibres present in our food may be accumulating in our bodies, rather than passing straight through our digestive systems.

FYI #4

People More Likely To Choose Vegetarian Meals If Meat Option Is Further Away



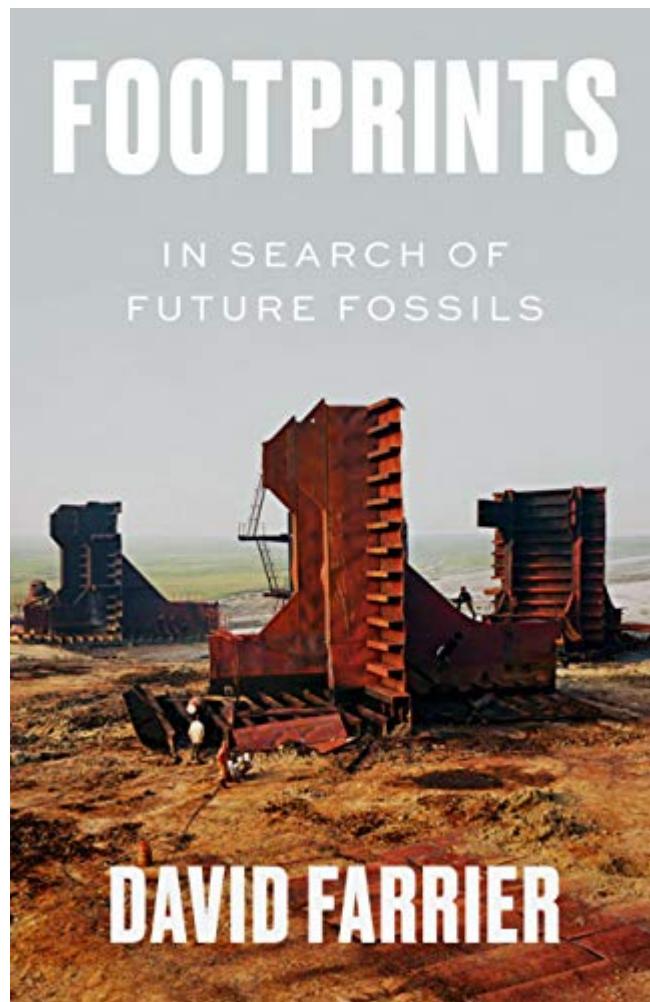
Credit: NICOLAS TUCAT/AFP/Getty

University students are more likely to choose a vegetarian dish if they have to walk further to get a meat option, researchers from the University of Cambridge have discovered. Putting vegetarian food more than a metre ahead of the meat option in a canteen results in a major sales boost for sales of plant-based portions, they found. The researchers used students from two Cambridge Colleges, spending two years – or more than 105,000 meals – switching around the layout of the college canteen to test how students behaved. It is one of the largest studies into 'choice architecture' of its kind.

[Read more at Inews](#)

FYI #5: SUMMER READING

Footprints: In Search of Future Fossils



A profound meditation on climate change and the Anthropocene and an urgent search for the fossils—industrial, chemical, geological—that humans are leaving behind. What will the world look like in ten thousand years—or ten million? What kinds of stories will be told about us? In *Footprints: In Search of Future Fossils*, the award-winning author David Farrier explores the traces we will leave for the very distant future. Modern civilization has created objects and landscapes with the potential to endure through deep time, whether it is plastic polluting the oceans and nuclear waste sealed within the earth or the 30 million miles of roads spanning the planet. Our carbon could linger in the atmosphere for 100,000 years, and the remains of our cities will still exist millions of years from now as a layer in the rock. These future fossils have the potential to reveal much about how we lived in the twenty-first century.

Crossing the boundaries of literature, art and science, *Footprints* invites us to think about how we will be remembered in the myths and stories of our distant descendants. Traveling from the Baltic Sea to the Great Barrier Reef, and from an ice-core laboratory in Tasmania to Shanghai, one of the world's biggest cities, Farrier describes a world that is changing rapidly, with consequences beyond the scope of human understanding. As much a message of hope as a

warning, *Footprints* will not only alter how you think about the future; it will change how you see the world today.

ALSO NEW BOOK BY NEIL SHUBIN: *Some Assembly Required: Decoding Four Billion Years of Life, from Ancient Fossils to DNA*

The author of the best-selling *Your Inner Fish* gives a lively and accessible account of the great transformations in the history of life on Earth--a new view of the evolution of human and animal life that explains how the incredible diversity of life on our planet came to be.

Over billions of years, ancient fish evolved to walk on land, reptiles transformed into birds that fly, and apelike primates evolved into humans that walk on two legs, talk and write. For more than a century, paleontologists have traveled the globe to find fossils that show how such changes have happened.

We have now arrived at a remarkable moment—prehistoric fossils coupled with new DNA technology have given us the tools to answer some of the basic questions of our existence: How do big changes in evolution happen? Is our presence on Earth the product of mere chance? This new science reveals a multibillion-year evolutionary history filled with twists and turns, trial and error, accident and invention.

In *Some Assembly Required*, Neil Shubin takes readers on a journey of discovery spanning centuries, as explorers and scientists seek to understand the origins of life's immense diversity.

See also:

Book Review of Both Books above: A Pair of Guides to Fossils, Past and Future

Read the Book Review at Undark

FYI#6: SPOTLIGHT ON EDUCATION

The Pandemic Could Derail a Generation of Young Scientists



Credit: IVAN KOVBASNIUK/GETTY

IMAGES

When COVID-19 hit Seattle, Anzela Niraula worried about the bus. Public transportation during a viral pandemic is less than ideal. How, the 32-year-old postdoctoral scholar wondered, would she get to work at the University of Washington, several miles away? She had no car or bike, so she walked, adding an hour to her commute each way.

Next, Niraula worried about her mice. To study how the brain controls feeding and metabolism in people, her research relied on caring for a cohort of 150 mice, which she fed an especially greasy diet for five months before collecting their brain cells and studying them under a microscope. Yet in early March it became clear that in a few days her lab, like most other labs at the university and others like it across the world, would be shut down for weeks, maybe months. Who would maintain the mice?

[Read More at Wired](#)

ENDSHOTS

ROADSIDE BEAUTY THE CORONAVIRUS PANDEMIC AND TRACKING EXCESS DEATHS

ONTARIO HIGHWAY 141 - SEPTEMBER 7, 2020



COVID-19 CORONAVIRUS PANDEMIC

Last updated: September 10, 2020, 17:06 GMT

[Graphs](#) - [Countries](#) - [Death Rate](#) - [Symptoms](#) - [Incubation](#) - [Transmission](#) - [News](#)

Coronavirus Cases:

28,181,504

[view by country](#)

Deaths:

910,858

Recovered:

20,214,600

ACTIVE CASES

7,056,046

Currently Infected Patients

6,995,500 (99%)

In Mild Condition

60,546 (1%)

Serious or Critical

[Show Graph](#)

CLOSED CASES

21,125,458

Cases which had an outcome:

20,214,600 (96%)

Recovered / Discharged

910,858 (4%)

Deaths

[Show Graph](#)

daily

linear

logarithmic

Daily New Cases

Cases per Day

Data as of 0:00 GMT+0

400k

300k

200k

100k

0

Jan 22 Feb 11 Mar 02 Mar 22 Apr 11 May 01 May 21 Jun 10 Jun 30 Jul 20 Aug 09 Aug 29

● 7-day moving average □

daily

linear

logarithmic

Daily Deaths

Deaths per Day

Data as of 0:00 GMT+0

10k

7.5k

5k

2.5k

0

Jan 22 Feb 11 Mar 02 Mar 22 Apr 11 May 01 May 21 Jun 10 Jun 30 Jul 20 Aug 09 Aug 29

● 7-day moving average □



TRACKING COVID-19 EXCESS DEATHS

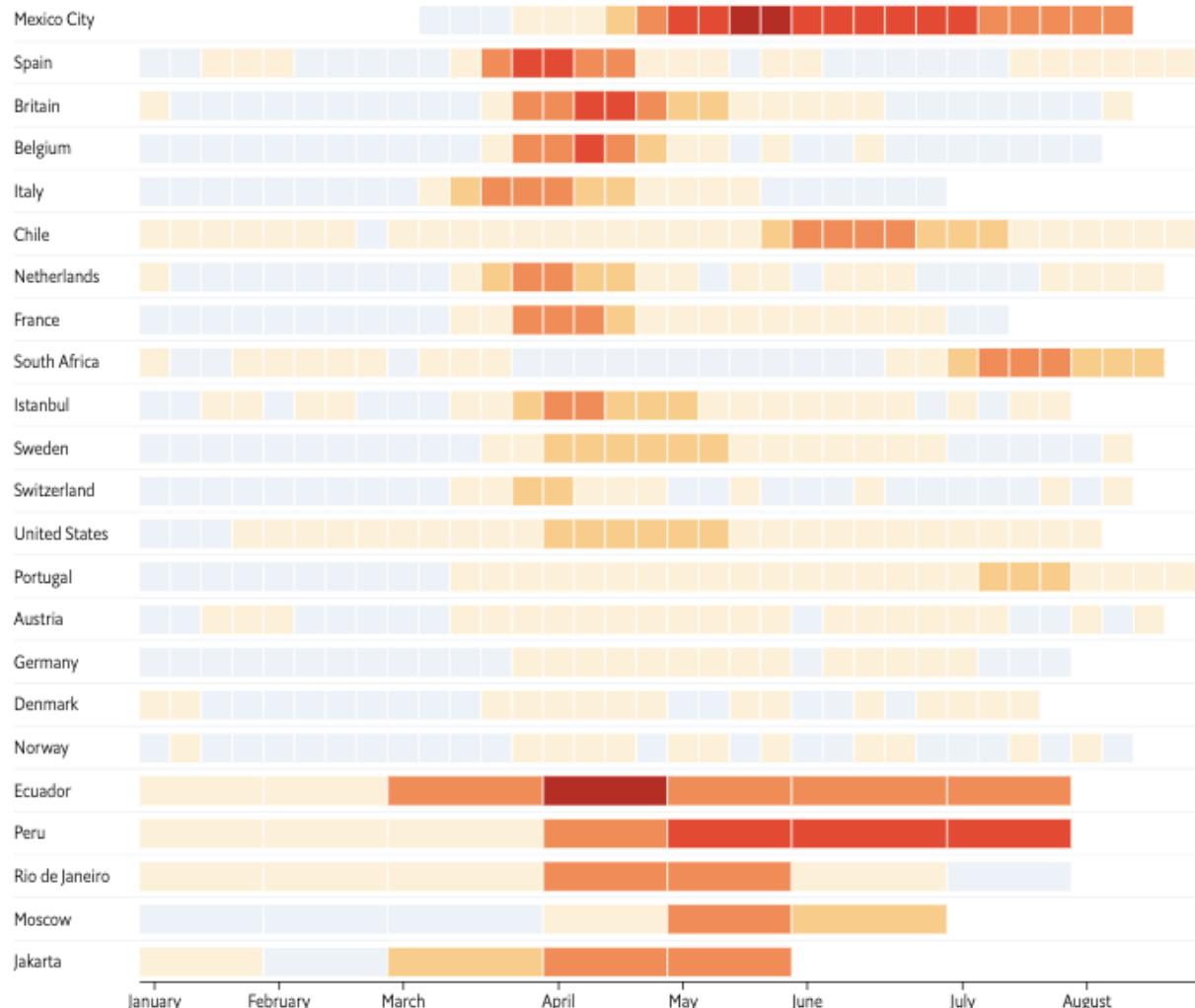
Source: <https://www.economist.com/graphic-detail/2020/07/15/tracking-covid-19-excess-deaths-across-countries>

Excess deaths by country or city

Last updated on August 28th, 13:02 UTC

Deviation from expected deaths, %

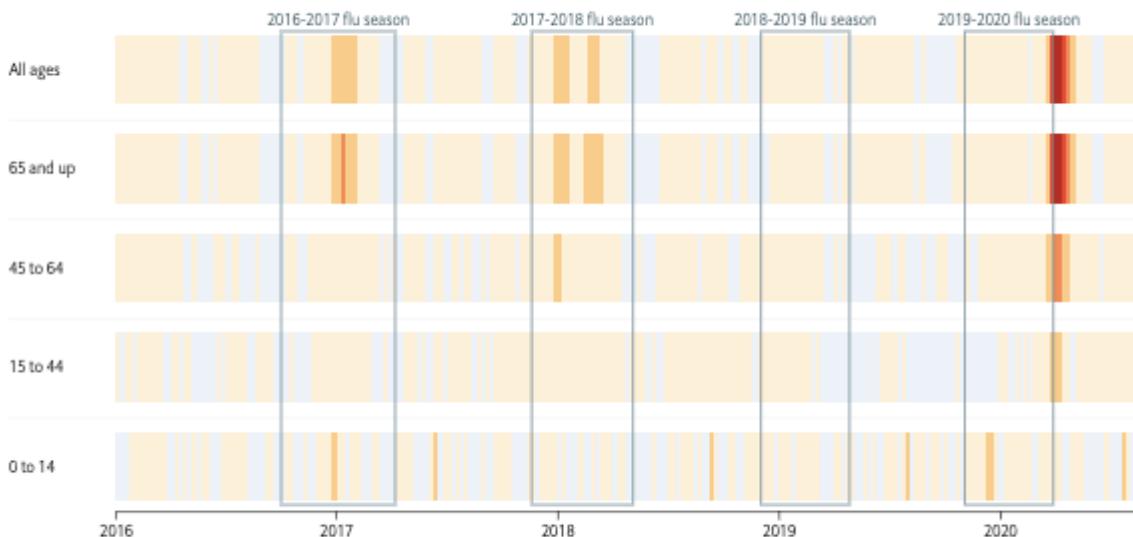
0 +25 +50 +100 +200



Weekly estimated excess deaths by age group
Total for 24 European countries*, to week ending Aug 8th

Deviation from expected deaths, %

0 +15 +30 +45 +60



Sources: EuroMOMO; European Centre for Disease Prevention and Control

*Austria, Belgium, Britain, Denmark, Estonia, Finland, France, Germany (Berlin and Hesse), Greece, Hungary, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden and Switzerland



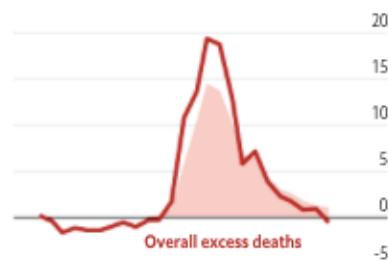
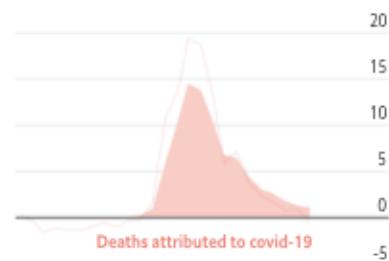
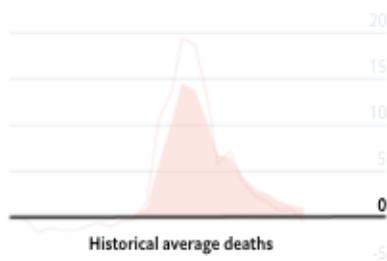
Excess deaths since country or city's first 50 covid deaths

Last updated on August 28th, 13:02 UTC

COUNTRY / REGION	TIME PERIOD	COVID-19 DEATHS	EXCESS DEATHS	EXCESS DEATHS PER 100K PEOPLE
Mexico City	Apr 5th-Aug 8th	9,388	29,097	 326
Peru	Mar 31st-Jul 30th	19,187	55,409	 169
Ecuador	Feb 29th-Jul 30th	5,702	28,536	 166
Rio de Janeiro	Feb 29th-Jul 30th	8,308	9,934	 148
Britain	Mar 13th-Aug 13th	56,572	63,943	 96
Spain	Mar 3rd-Aug 24th	28,754	44,448	 95
Moscow	Mar 31st-Jun 29th	3,796	11,080	 88
Italy	Feb 25th-Jun 29th	34,060	42,703	 76
Chile	Apr 7th-Aug 24th	10,914	12,372	 70
Belgium	Mar 17th-Aug 3rd	9,690	7,941	 69
United States	Mar 7th-Jul 31st	152,611	214,812	 66
Netherlands	Mar 15th-Aug 22nd	6,171	10,203	 59
Portugal	Mar 24th-Aug 24th	1,772	5,964	 58
Sweden	Mar 17th-Aug 10th	5,787	5,340	 52
France	Mar 10th-Jul 13th	29,996	29,073	 45
South Africa	Apr 14th-Aug 17th	12,237	25,965	 44
Jakarta	Feb 29th-May 30th	520	4,465	 41
Istanbul	Mar 24th-Jul 27th	2,801	4,389	 28
Austria	Mar 15th-Aug 15th	716	1,658	 19
Switzerland	Mar 15th-Aug 15th	1,702	1,568	 18
Germany	Mar 17th-Jul 27th	9,115	9,193	 11
Denmark	Mar 24th-Jul 20th	579	459	 8



How to read an "excess deaths" chart



The zero baseline represents the 2015-19 average of deaths from all causes in this region. A number above zero means more deaths than expected, and a number below zero means fewer deaths than expected

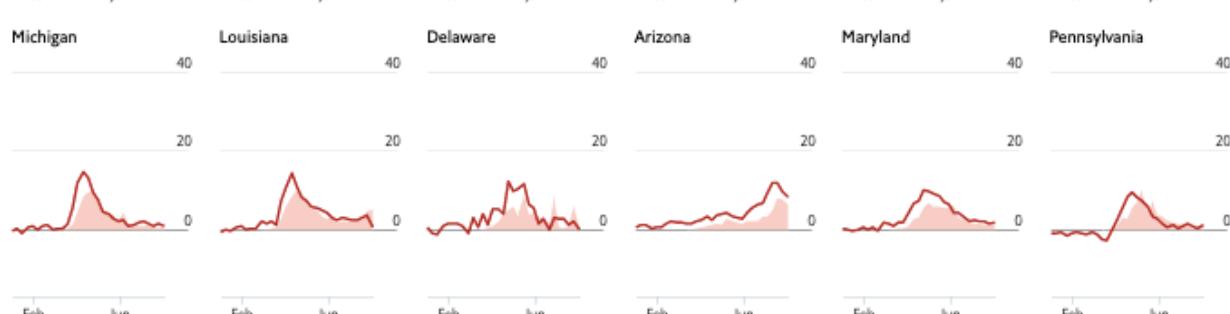
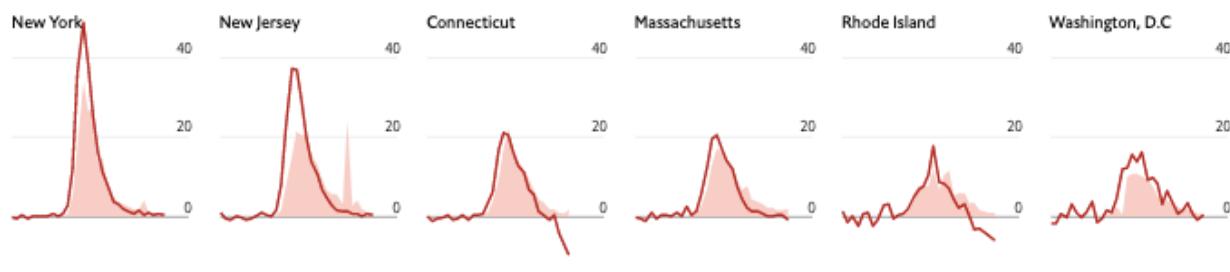
The shaded area represents the number of deaths that the government has officially attributed to covid-19 in this region. In most places, this only includes people who tested positive for the coronavirus

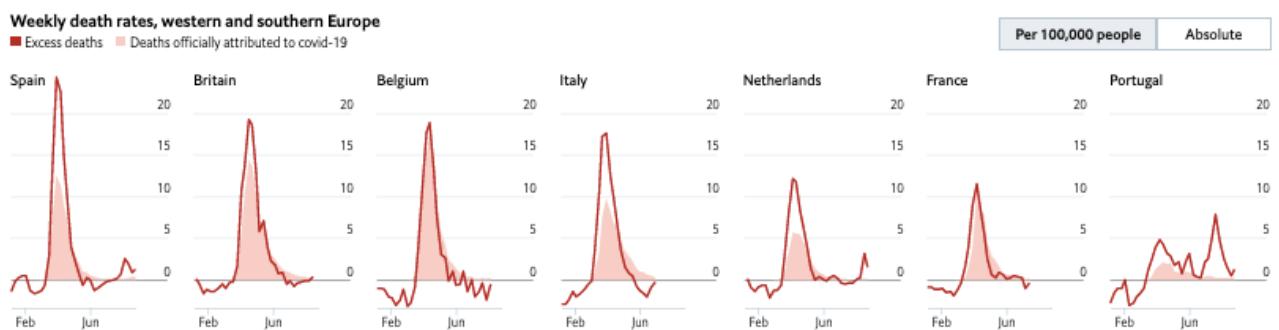
The red line represents the number of "excess deaths": how many more (or fewer) deaths from all causes there were than expected. This will include people who died from covid-19 but were not tested

Weekly death rates, United States

■ Excess deaths ■ Deaths officially attributed to covid-19

Per 100,000 people	Absolute
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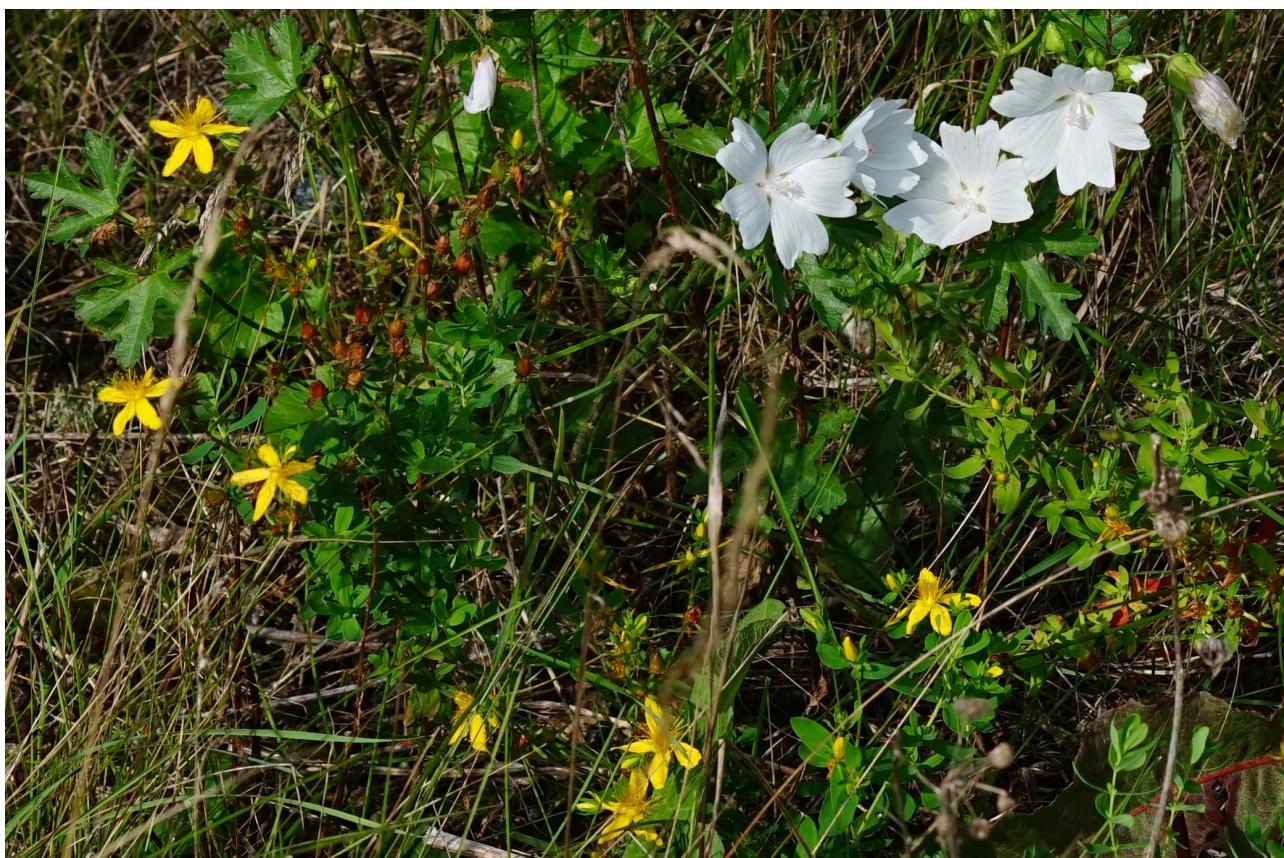
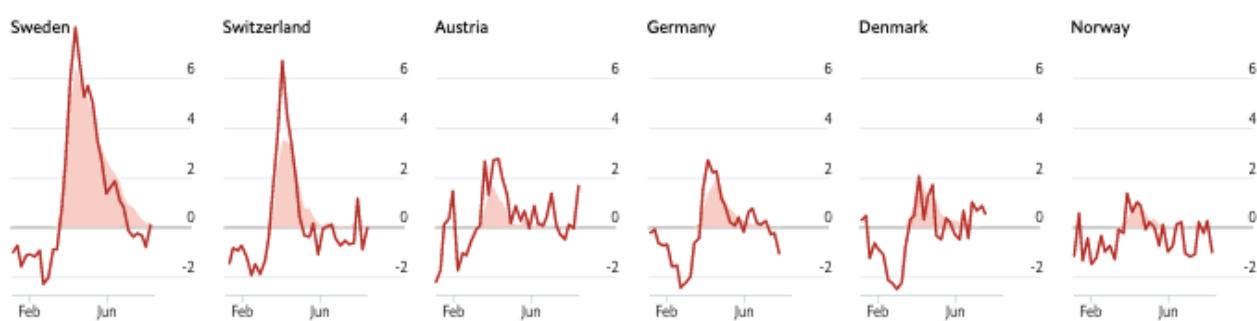


Weekly death rates, central and northern Europe

■ Excess deaths ■ Deaths officially attributed to covid-19

Per 100,000 people

Absolute

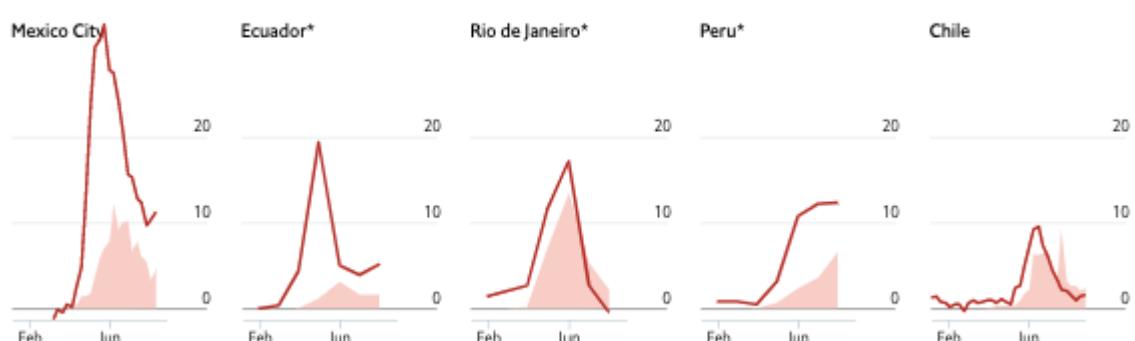


Weekly death rates, Latin America

■ Excess deaths ■ Deaths officially attributed to covid-19

Per 100,000 people

Absolute

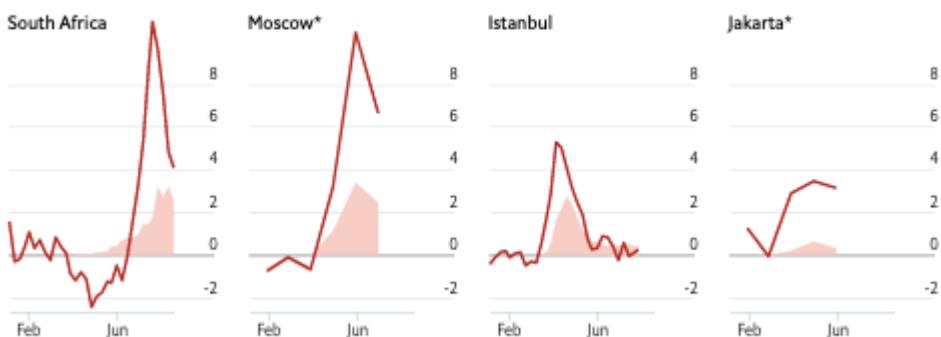


*Monthly data, converted into weekly average for each month

Weekly death rates, rest of the world
■ Excess deaths ■ Deaths officially attributed to covid-19

Per 100,000 people

Absolute



*Monthly data, converted into weekly average for each month



COUNTRIES RANKED BY NUMBER OF NEW COVID-19 CASES (SEPT. 3-10, 2020)

Source: <https://www.washingtonpost.com/graphics/2020/world/mappingspread-new-coronavirus/>

Country	Reported cases	Change from Sept. 3		
		Total ▼	Pct.	Deaths
India	4,465,863	▲ 612,457	+16%	75,062
U.S.	6,345,464	▲ 227,206	+4%	187,996
Brazil	4,197,889	▲ 156,251	+4%	128,539
Argentina	512,293	▲ 61,095	+14%	10,713
Spain	543,379	▲ 54,866	+11%	29,628
Peru	702,776	▲ 45,647	+7%	30,236
Colombia	686,851	▲ 45,277	+7%	22,053
France	383,293	▲ 45,073	+13%	30,805
Russia	1,042,836	▲ 35,913	+4%	18,207
Iraq	278,418	▲ 31,379	+13%	7,814
Mexico	647,321	▲ 30,427	+5%	69,049
Indonesia	207,203	▲ 22,935	+12%	8,456
Philippines	248,947	▲ 20,544	+9%	4,066
Israel	143,049	▲ 18,594	+15%	1,055
Ukraine	149,146	▲ 17,846	+14%	3,079
Britain	360,533	▲ 17,825	+5%	41,697
Iran	395,488	▲ 14,742	+4%	22,798
Bangladesh	332,970	▲ 13,284	+4%	4,634
Chile	428,669	▲ 12,168	+3%	11,781
Italy	283,180	▲ 10,268	+4%	35,587
Turkey	284,943	▲ 10,000	+4%	6,837
South Africa	642,431	▲ 9,416	+1%	15,168
Germany	257,925	▲ 9,085	+4%	9,345
Saudi Arabia	323,720	▲ 5,401	+2%	4,189
Bolivia	123,345	▲ 4,564	+4%	7,146
Dominican Republic	100,937	▲ 4,308	+4%	1,914
Canada	136,565	▲ 4,038	+3%	9,208
Pakistan	300,030	▲ 2,518	+1%	6,365
Qatar	121,052	▲ 1,632	+1%	205
Egypt	100,403	▲ 978	+1%	5,577

COUNTRIES RANKED BY % INCREASE OF NEW COVID-19 CASES (SEPT. 3-10, 2020)

Source: <https://www.washingtonpost.com/graphics/2020/world/mappingspread-new-coronavirus/>

Country	Reported cases	Change from Sept. 3		
		Total	Pct. ▼	Deaths
India	4,465,863	▲ 612,457	+16%	75,062
Israel	143,049	▲ 18,594	+15%	1,055
Ukraine	149,146	▲ 17,846	+14%	3,079
Argentina	512,293	▲ 61,095	+14%	10,713
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Qatar	121,052	▲ 1,632	+1%	205
Egypt	100,403	▲ 978	+1%	5,577
Pakistan	300,030	▲ 2,518	+1%	6,365



COUNTRIES BY TOTAL NUMBER OF COVID-19 DEATHS - September 10, 2020

Source: <https://www.washingtonpost.com/graphics/2020/world/mappingspread-new-coronavirus/>

Country	Reported cases	Change from Sept. 3		
		Total	Pct.	Deaths ▼
U.S.	6,345,464	▲ 227,206	+4%	187,996
Brazil	4,197,889	▲ 156,251	+4%	128,539
India	4,465,863	▲ 612,457	+16%	75,062
Mexico	647,321	▲ 30,427	+5%	69,049
Britain	360,533	▲ 17,825	+5%	41,697
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Spain	543,379	▲ 54,866	+11%	29,628
Iran	395,488	▲ 14,742	+4%	22,798
Colombia	686,851	▲ 45,277	+7%	22,053
Russia	1,042,836	▲ 35,913	+4%	18,207
South Africa	642,431	▲ 9,416	+1%	15,168
Chile	428,669	▲ 12,168	+3%	11,781
Argentina	512,293	▲ 61,095	+14%	10,713
Ecuador	112,166	▼ 4,194	10,701	
Germany	257,925	▲ 9,085	+4%	9,345
Canada	136,565	▲ 4,038	+3%	9,208
Indonesia	207,203	▲ 22,935	+12%	8,456
Iraq	278,418	▲ 31,379	+13%	7,814
Bolivia	123,345	▲ 4,564	+4%	7,146
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Ukraine	149,146	▲ 17,846	+14%	3,079
Dominican Republic	100,937	▲ 4,308	+4%	1,914
Kazakhstan	106,584	▲ 463	0%	1,634



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49 Beresford Avenue, Toronto,
Ontario, Canada M6S 3A9

Publisher and Editor: Dr. David Zakus

david.zakus@utoronto.ca

Production: Aisha Saleem & Eunice Anteh

Social Media: Evans Oppong

Website, Index and Advisory: Gaël Chetaille, Jonathan Zakus,
Dr. Aimée-Angélique Bouka & Elisabeth Huang

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