

Michael E. Mann Tom Toles

LA TERRA BRUCIA



Perché
negare il cambiamento
climatico minaccia
il nostro pianeta



LEGAMBIENTE

HOEPLI

HOEPLI.IT



Michael E. Mann

Director, Earth System Science Center
Penn State University

Politecnico di Milano
Milano, Italy

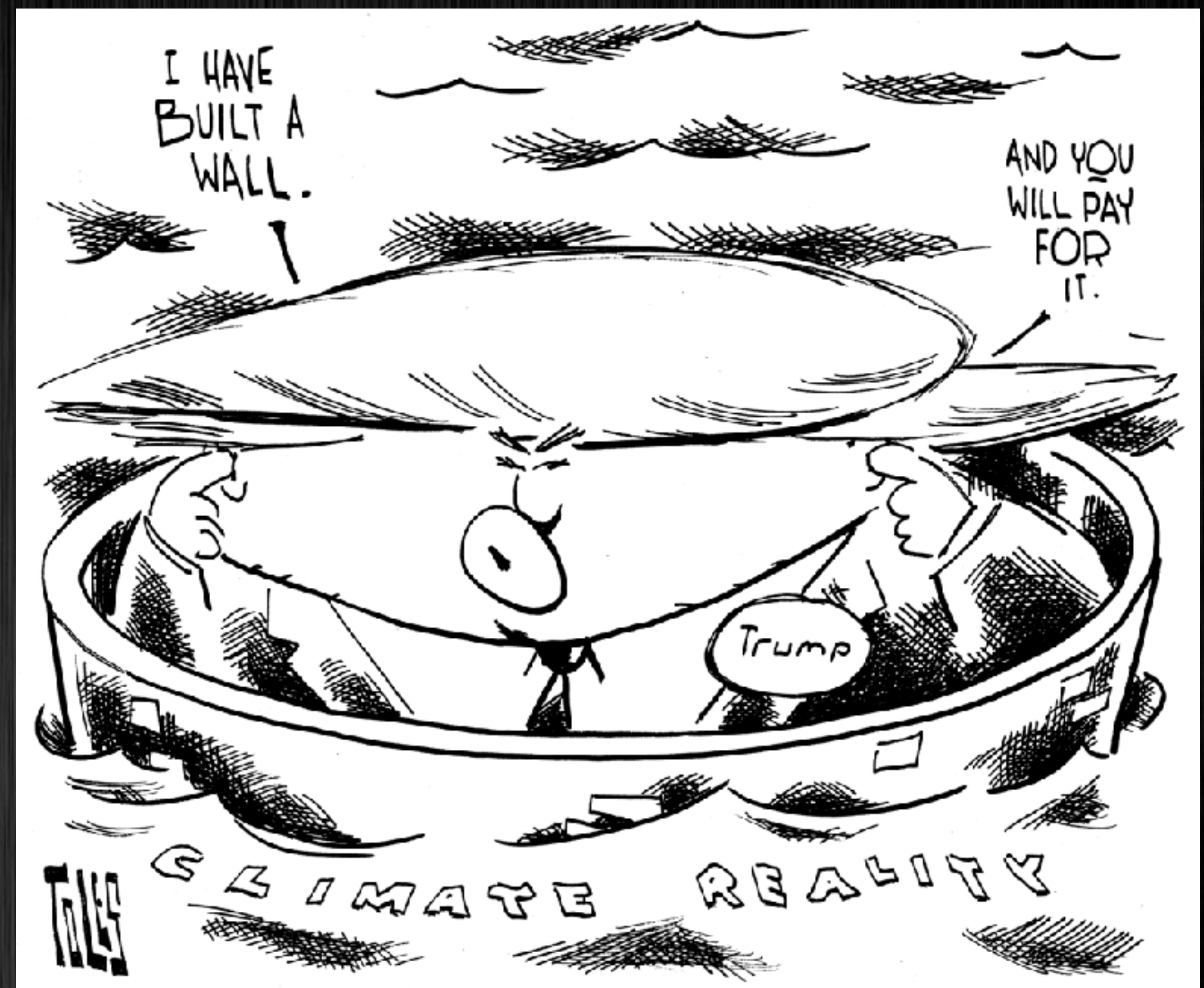
June 18, 2018

Michael E. Mann Tom Toles

LA TERRA BRUCIA



***The monumental
challenge of climate
change after the Paris
Agreement***

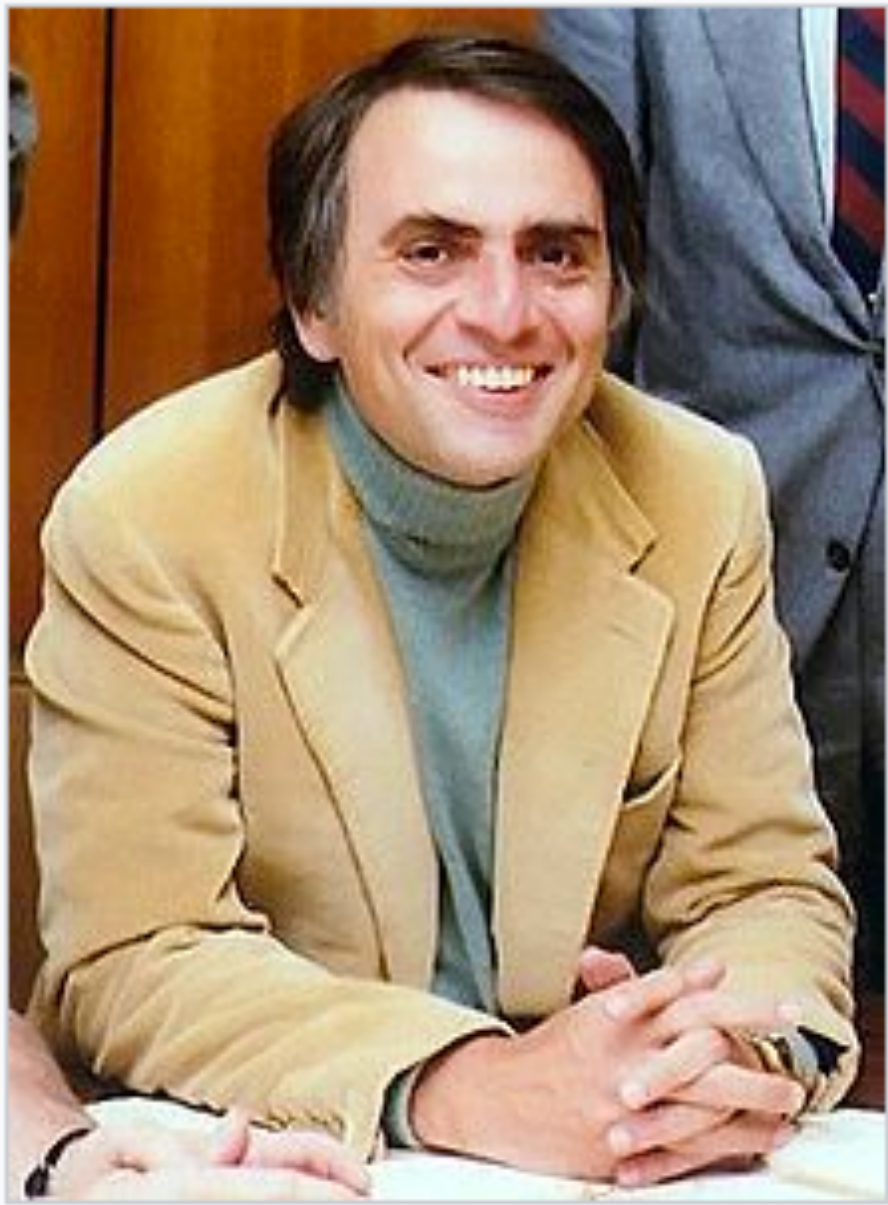


Michael E. Mann

Director, Earth System Science Center
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Politecnico di Milano
Milano, Italy
June 18, 2018

Chapter 1. Science: How It Works



The fact that some [geniuses](#) were [laughed](#) at does not imply that all who are laughed at are geniuses. They laughed at [Columbus](#), they laughed at [Fulton](#), they laughed at the [Wright brothers](#). But they also laughed at [Bozo the Clown](#).



Skepticism

The Opinion Pages | OP-ED COLUMNIST

Climate of Complete Certainty



Bret Stephens APRIL 23, 2017



Rondan Smolnashki/Agence France-Presse — Getty Images

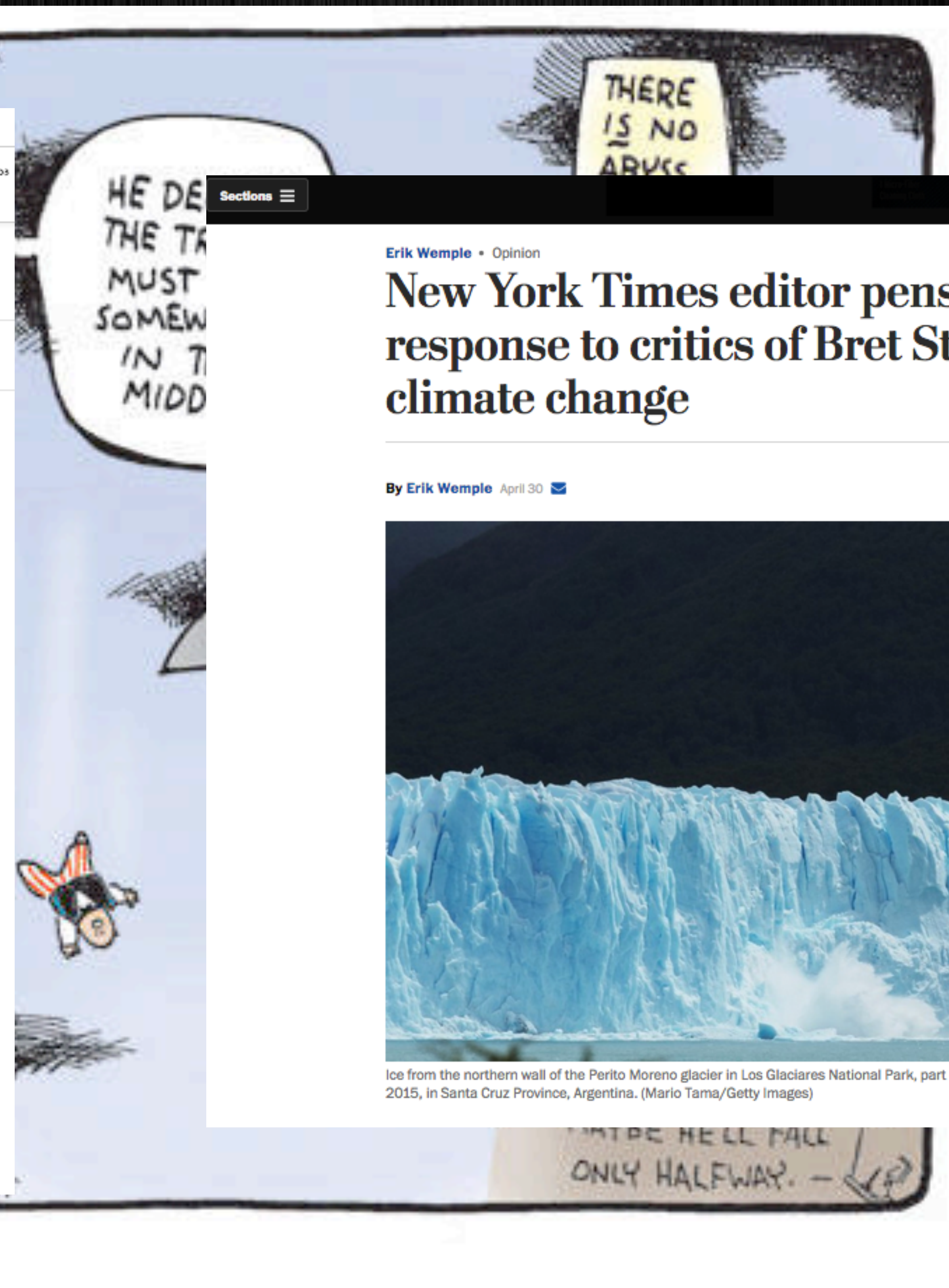
This is [Bret Stephens's first column](#).

When someone is honestly 55 percent right, that's very good and there's no use wrangling. And if someone is 60 percent right, it's wonderful, it's great luck, and let him thank God.

But what's to be said about 75 percent right? Wise people say this is suspicious. Well, and what about 100 percent right? Whoever says he's 100 percent right is a fanatic, a thug, and the worst kind of rascal.

— An old Jew of Galicia

In the final stretch of last year's presidential race, Hillary Clinton and her team thought they were, if not 100 percent right, then very close.



Sections

The Washington Post
Democracy Dies in Darkness

Erik Wemple • Opinion

New York Times editor pens weak, vague response to critics of Bret Stephens's op-ed on climate change

By Erik Wemple April 30

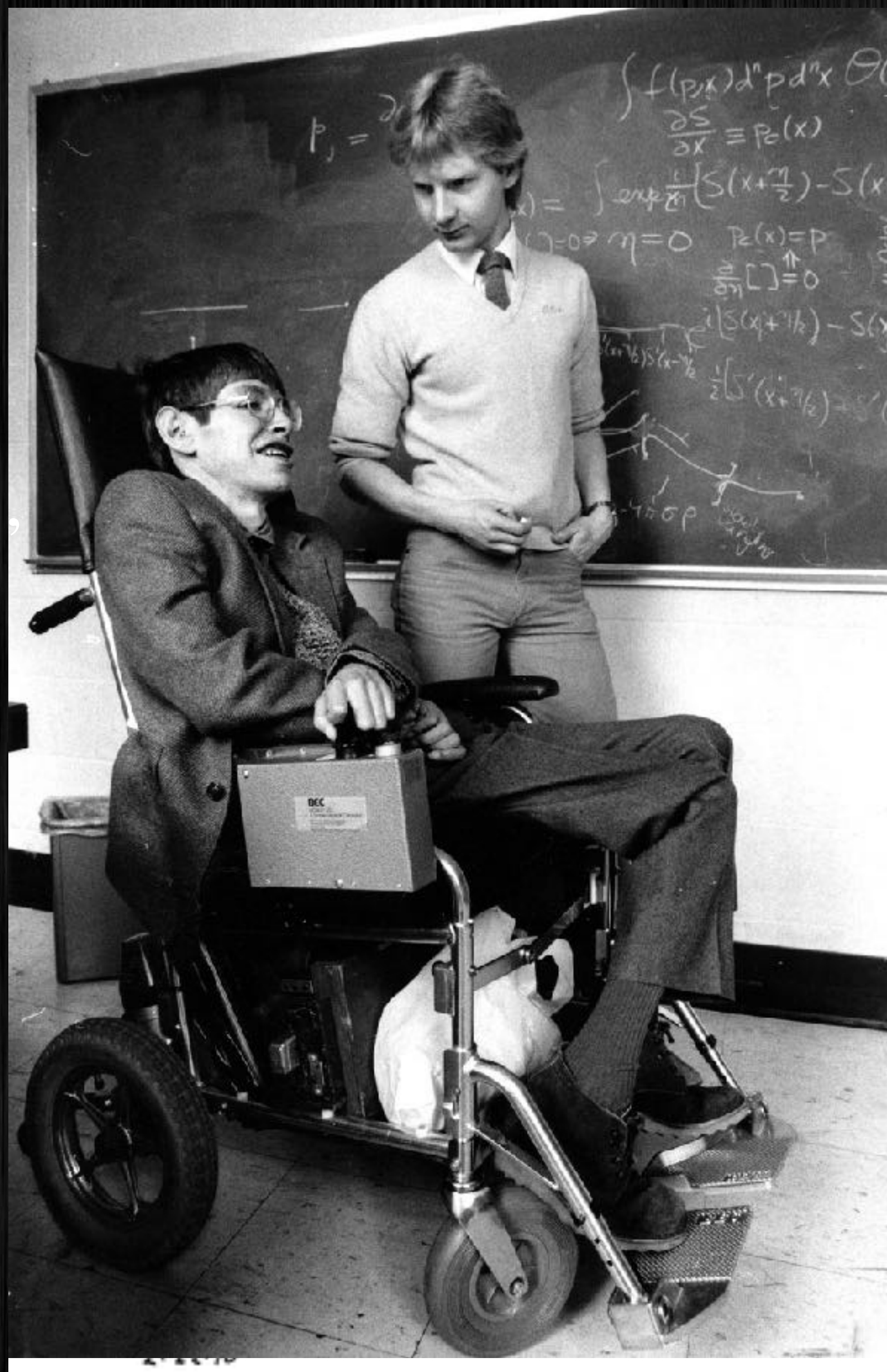


Ice from the northern wall of the Perito Moreno glacier in Los Glaciares National Park, part of the Southern Patagonian Ice Field, on Nov. 29, 2015, in Santa Cruz Province, Argentina. (Mario Tama/Getty Images)

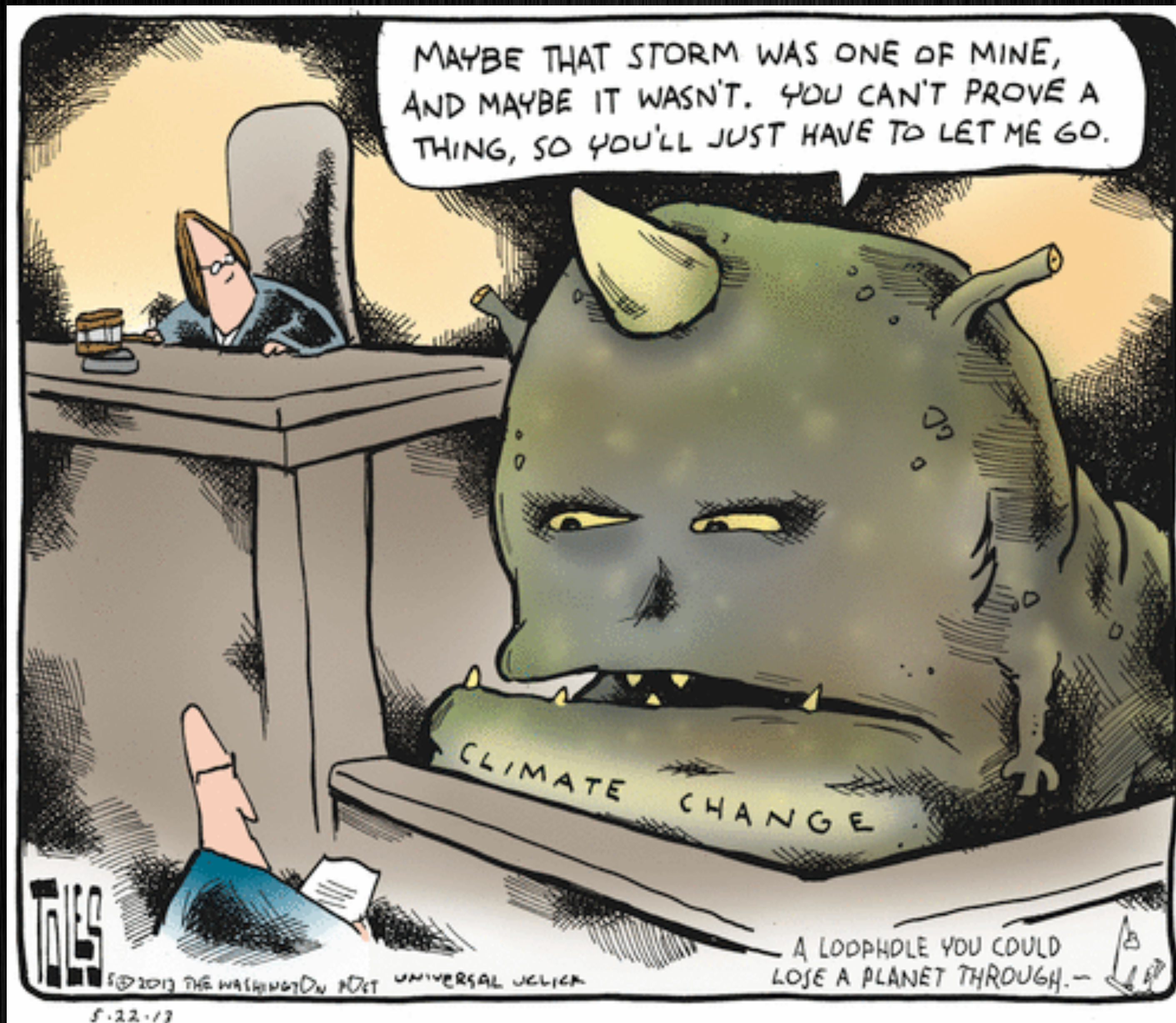
False Balance

Chapter 2. Climate Change: The Basics

“Next time you
meet a climate-
change denier, tell
them to take a trip
to Venus;
I will pay the fare”



Consensus



Extreme Weather



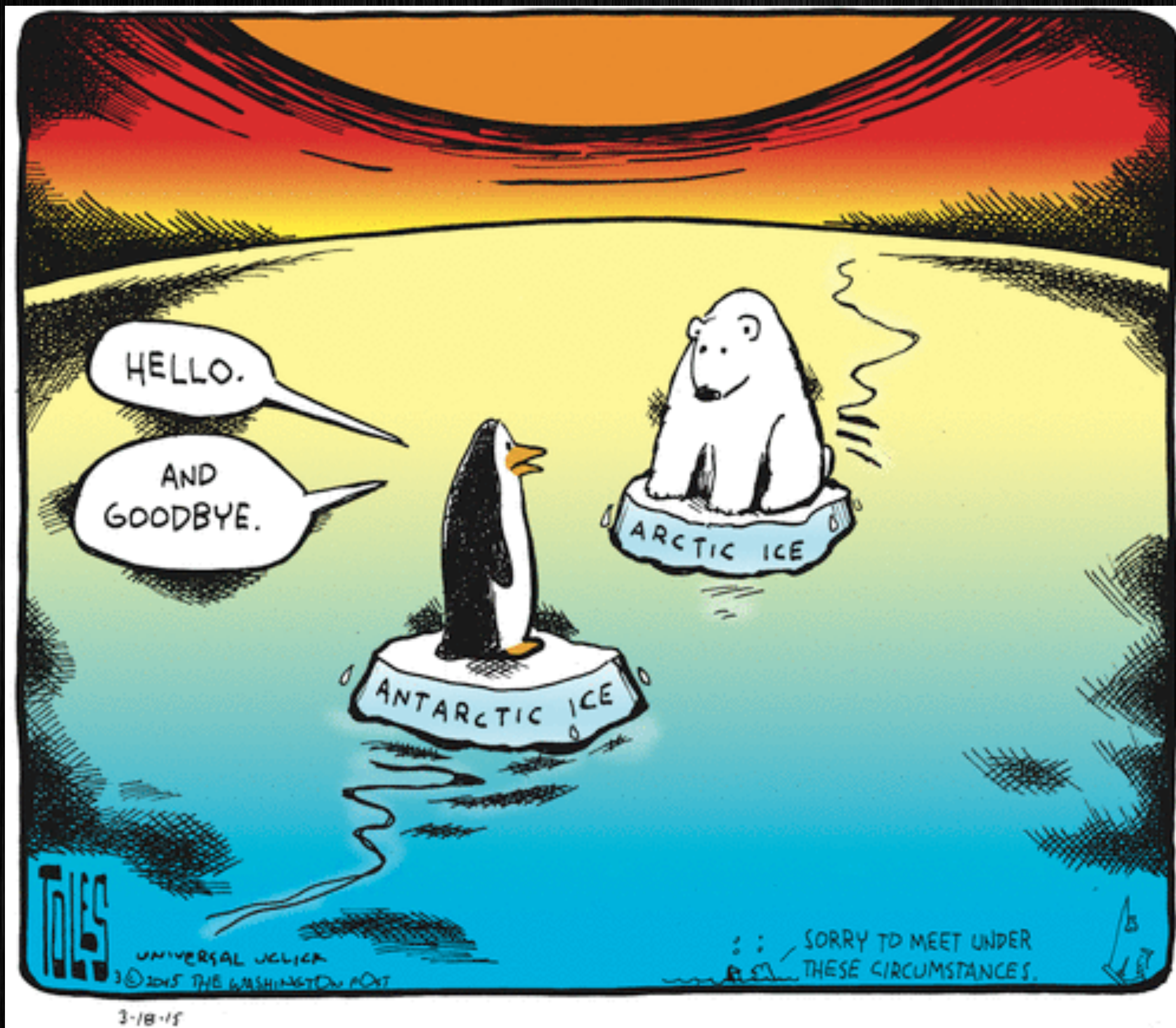






Extreme Weather

Chapter 3. Why Should I Give a Damn?



Species Loss



Geophysical Research Letters

AN AGU JOURNAL

Climate

Disappearing Arctic sea ice reduces available water in the American west

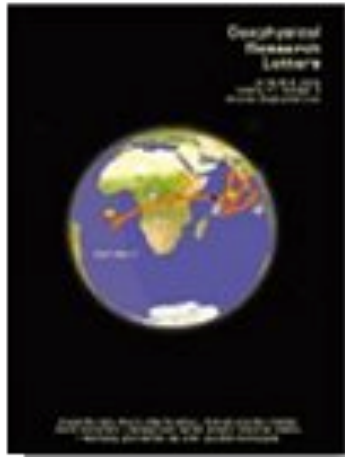
Jacob O. Sewall, Lisa Cirbus Sloan

Issue

Article first published online: 24 MAR 2004

DOI: 10.1029/2003GL019133

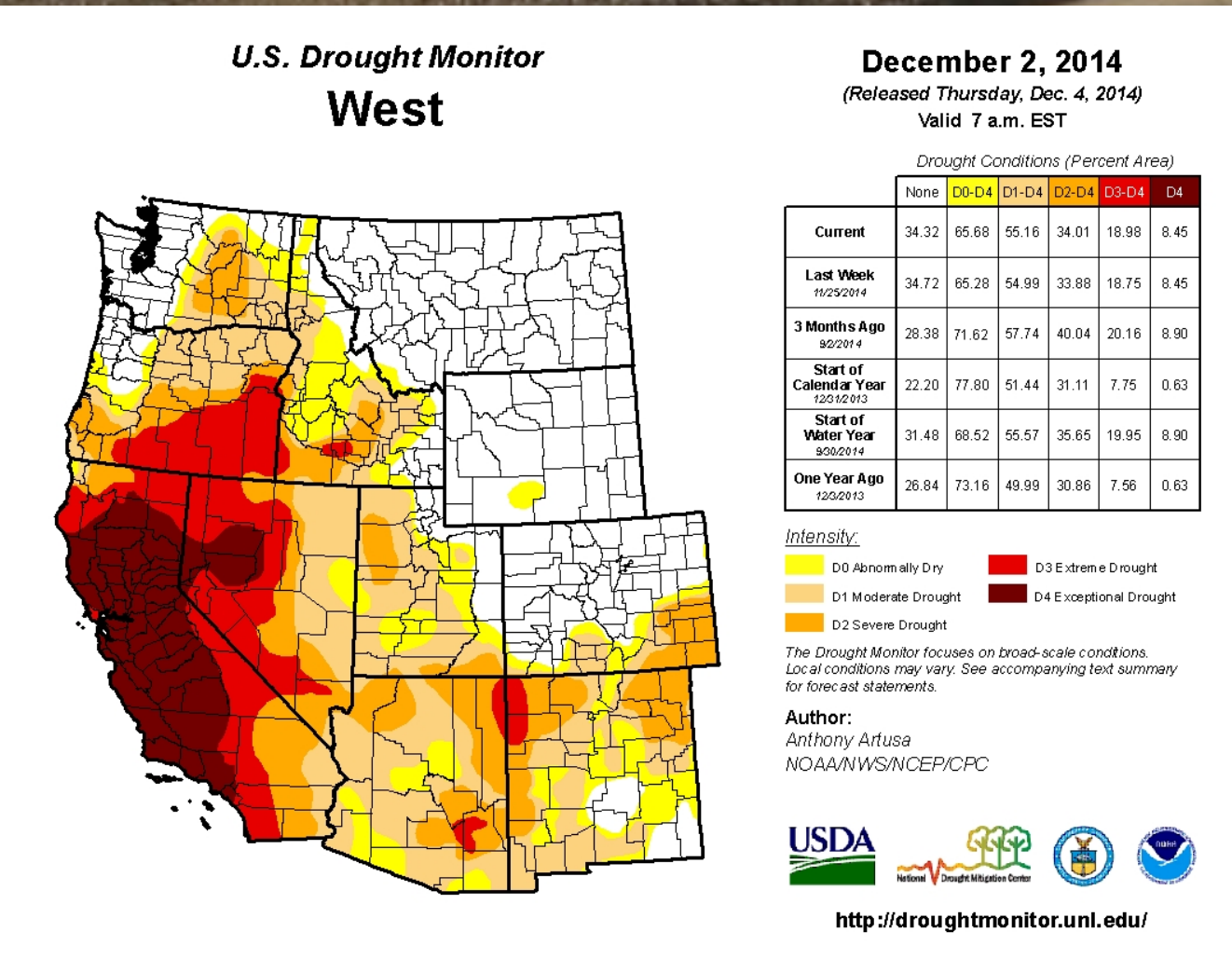
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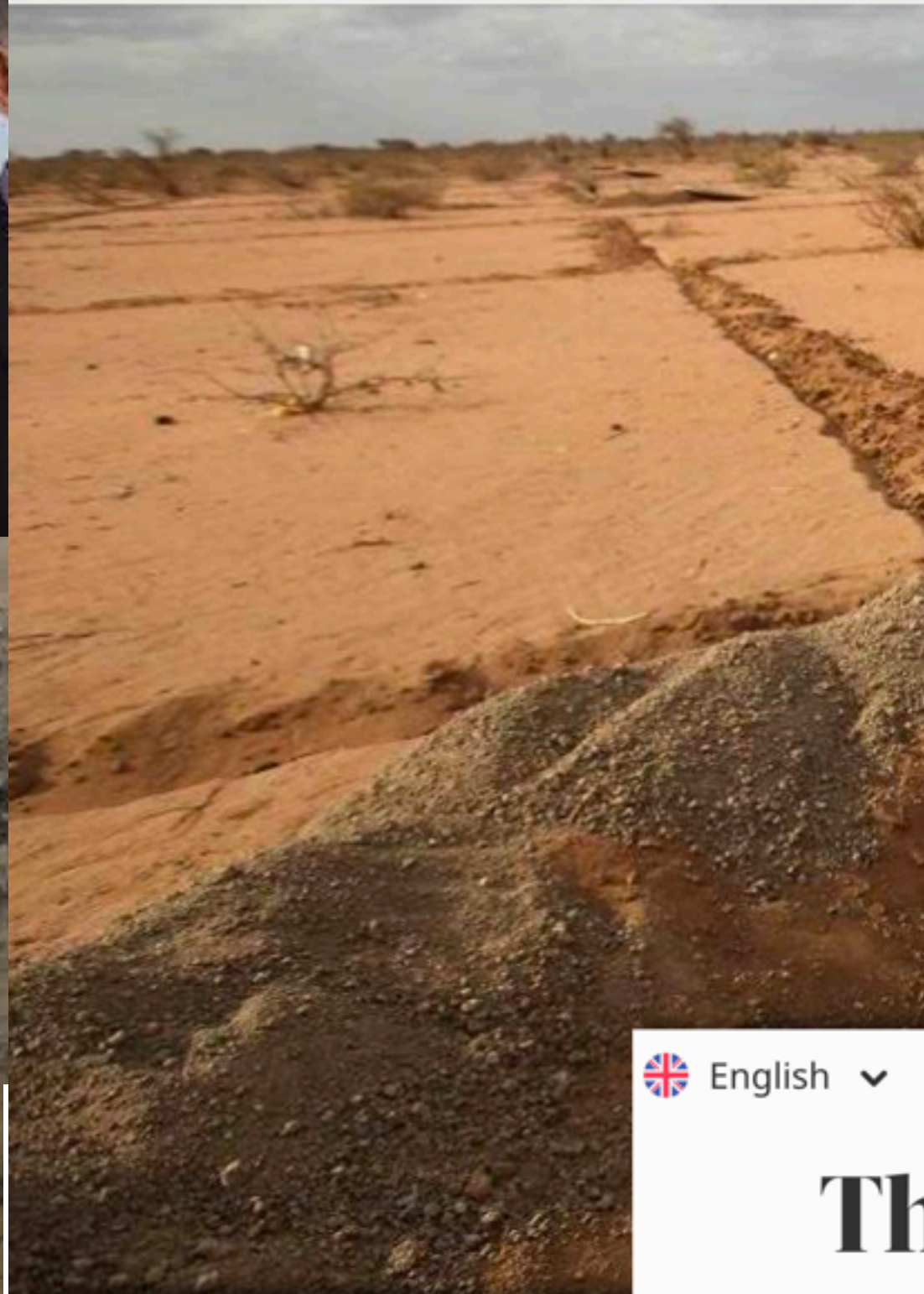
Geophysical Research Letters

Volume 31, Issue 6, March 2004

California's Drought Worst in 1,200 Years, Researchers Say

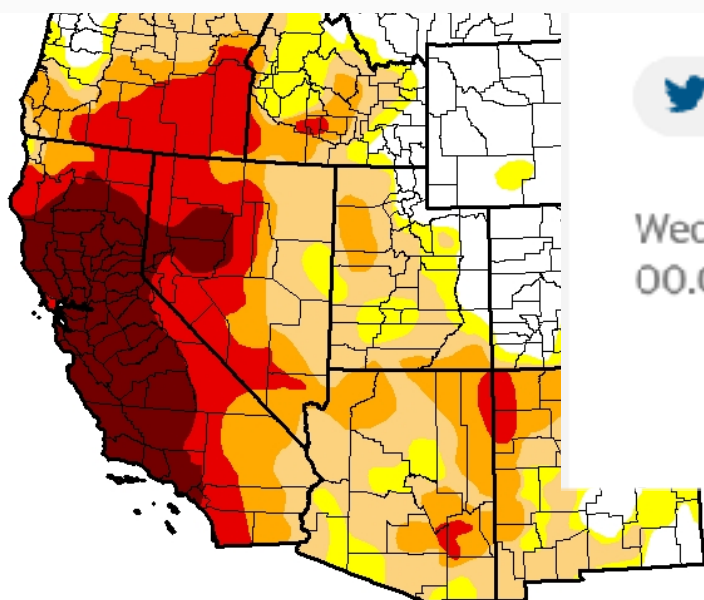


Agriculture



English

Th



@olliemilman

Wednesday 14 September
00.01 EDT

USDA
National Drought Mitigation Center
<http://droughtmonit>

Languages

Saturday, June 16, 2018



INTER PRESS S
News Agency

Home Development & Aid Economy & Trade

Climate Change, Development & Aid, Editors' Choice, Environ-
Rights, IPS UN: Inside the Glasshouse, Migration & Refugee

Will Climate Change Cause

By Daniel Gutman

Reprint

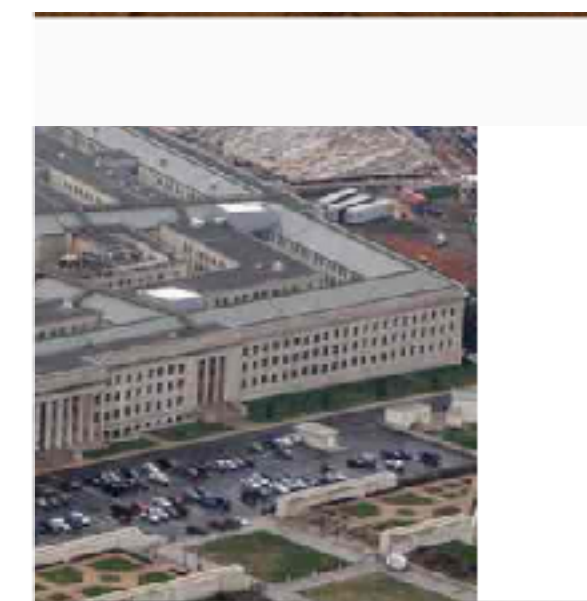


Ovais Sarmad, Deputy Executive Secretary of the United Nations Framework Convention on Climate Change (UNFCCC), spoke at a conference in Buenos Aires, during a meeting, T20 and Climate Change: Planning, Risk and Response Facing the Emergency, to study the emergencies caused by this phenomenon. Credit: Argentine Council on Foreign Relations

TECH & SCIENCE

NUMBER OF AFRICAN MIGRANTS WILL DOUBLE BY 2050 AND CLIMATE CHANGE WILL MAKE IT WORSE

BY DANA DOVEY ON 6/4/18 AT 12:34 PM



Italy's New Populist Government Turns Away Ship With 600 Migrants Aboard

EUROPE

The New York Times



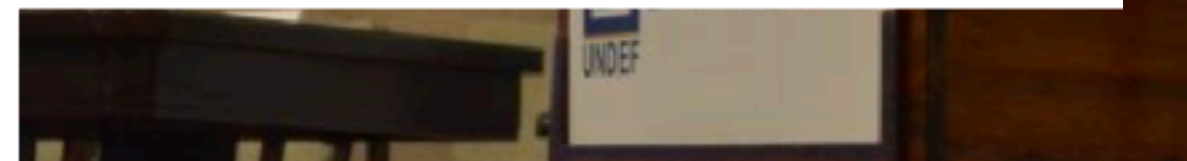
INTERNATIONAL | By Neeti Upadhye | 1:10
600 Migrants Stranded At Sea

The populist Italian government refused to allow a rescue boat carrying hundreds of migrants from across Africa to dock in the country. Spain later offered to accept the ship.

June 11, 2018 • Image by Karpov, via Reuters

By Gaia Pianigiani, Jason Horowitz and Raphael Minder

June 11, 2018



Ovais Sarmad, Deputy Executive Secretary of the United Nations Framework spoke at a conference in Buenos Aires, during a meeting, T20 and Climate Change: Planning, Risk and Response Facing the Emergency, to study the emergencies caused by this phenomenon. Credit: Argentine Council on Foreign Relations

GULF NEWS FRANCE

June 16, 2018 | Last updated 4 minutes ago

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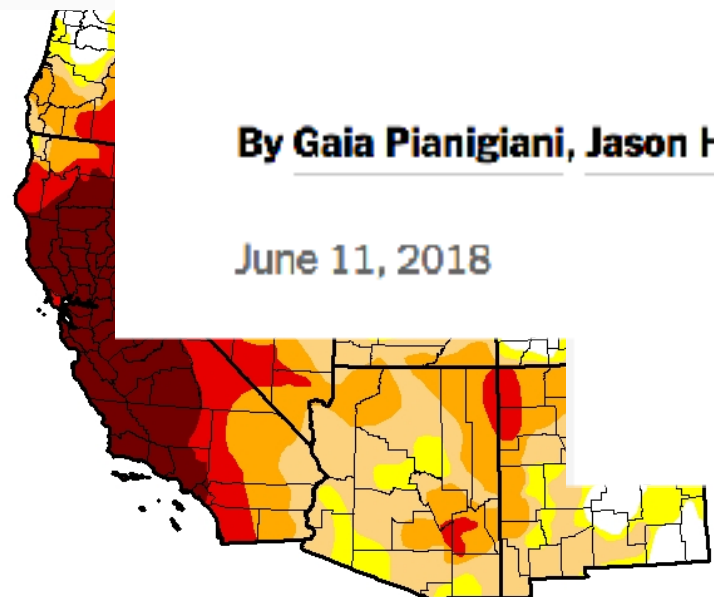
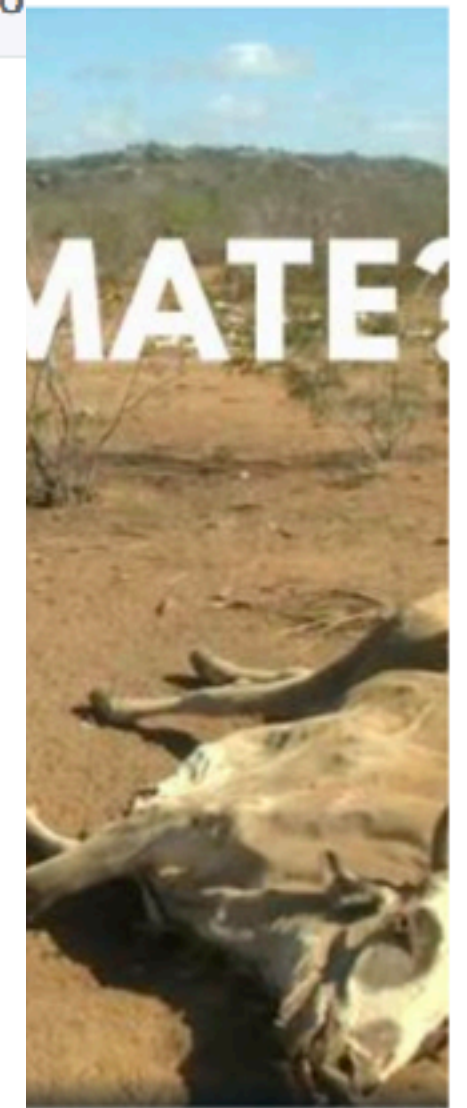
Refugee crisis on the menu as Macron meets Italian leader

Under the EU's Dublin Agreement, which is currently up for review, refugees hoping to apply for asylum must do so in the first country they enter



Image Credit: Reuters

L DOUBLE
MAKE IT



Chapter 4. The Stages of Denial

"All the News
That's Fit to Print"

The New York Times

Late Edition

Today, partly sunny, milder in the afternoon, high 50. Tonight, partly cloudy, low 37. Tomorrow, some sunshine, then clouds, showers late, high 46. Weather map, Page A28.

VOL. CLXVI ... No. 57,482

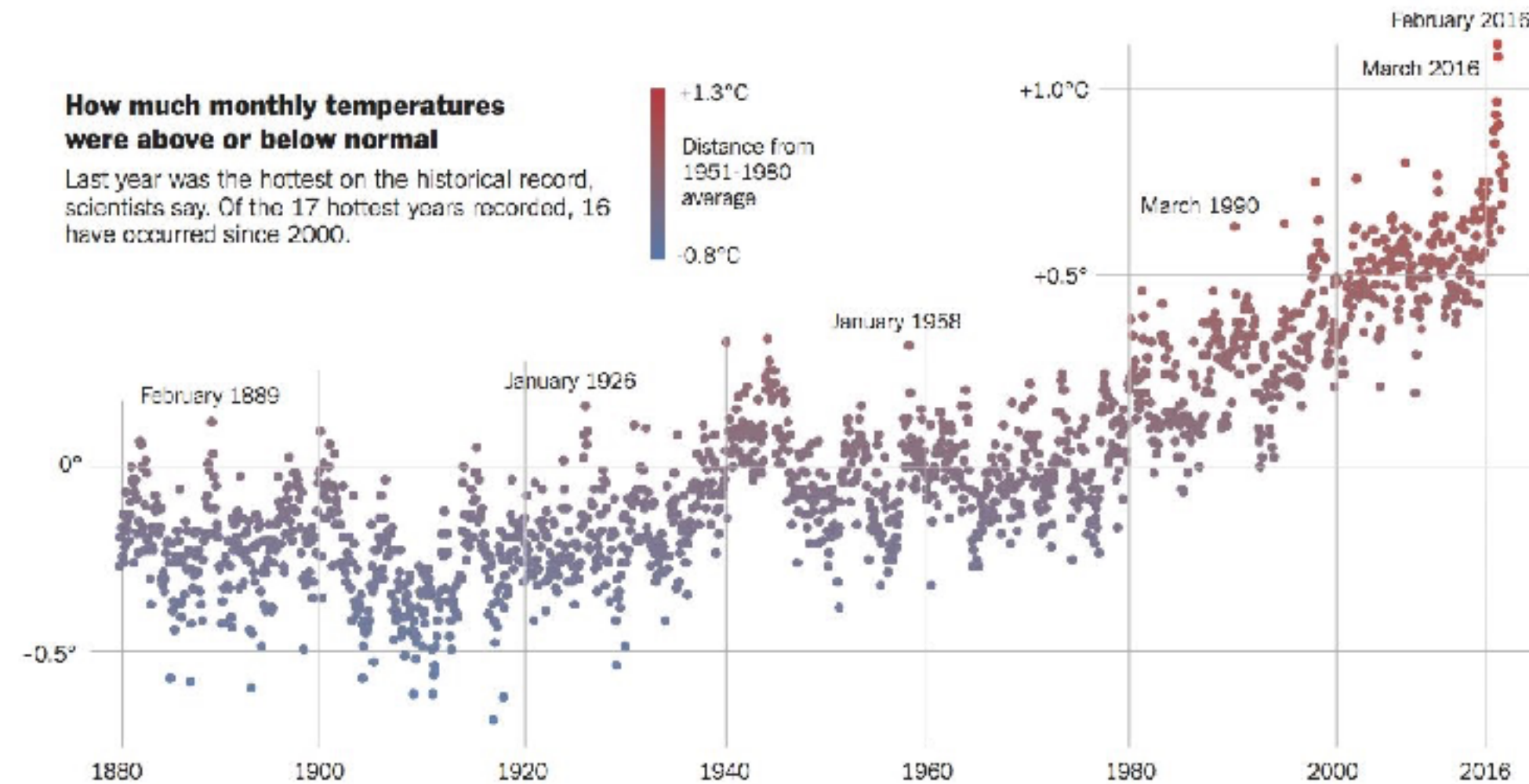
© 2017 The New York Times Company

NEW YORK, THURSDAY, JANUARY 19, 2017

\$2.50

How much monthly temperatures were above or below normal

Last year was the hottest on the historical record, scientists say. Of the 17 hottest years recorded, 16 have occurred since 2000.



Source: NASA GISS Surface Temperature Analysis

JUGAL K. PATEL/THE NEW YORK TIMES

FOR THIRD YEAR, THE EARTH IN 2016 SET HEAT RECORD

*Threat to Society and Nature Is Rising —
Scale of Shift Startles Scientists*

By JUSTIN GILLIS

Marking another milestone for a changing planet, scientists reported on Wednesday that the Earth reached its highest temperature on record in 2016, trouncing a record set only a year earlier, which beat one set in 2014. It is the first time in the modern era of global warming data that temperatures have blown past the previous record three years in a row.

The findings come two days before the inauguration of an American president who has called global warming a Chinese plot and vowed to roll back his predecessor's efforts to cut emissions of heat-trapping gases.

In reality, the Earth is heating up, a point long beyond serious scientific dispute, but one becoming more evident as the records keep falling. Temperatures are heading toward levels that many experts believe will pose a profound threat to both the natural world and to human civilization.

In 2015 and 2016, the planetary warming was intensified by the weather pattern known as El Niño, in which the Pacific Ocean released a huge burst of energy and water vapor into the atmosphere. But the bigger factor in setting the records was the long-term trend of rising temperatures, which scientists say is being driven by increasing levels of carbon dioxide and other greenhouse

gases.

"A single warm year is something of a curiosity," said Deke Arndt, chief of global climate monitoring for the National Oceanic and Atmospheric Administration. "It's really the trend, and the fact that we're punching at the ceiling every year now, that is the real indicator that we're undergoing big changes."

The heat extremes were especially pervasive in the Arctic, with temperatures in the fall running 20 to 30 degrees Fahrenheit above normal across large stretches of the Arctic Ocean. Sea ice in that region has been in precipitous decline for years, and Arctic communities are already wrestling with enormous problems, such as rapid coastal erosion, caused by the changing climate.

"What's going on in the Arctic is really very impressive; this year was ridiculously off the chart," said Gavin A. Schmidt, head of the Goddard Institute for Space Studies in Manhattan, a unit of the National Aeronautics and Space Administration that tracks global temperatures.

But Arctic people were hardly alone in feeling the heat. Drought and starvation afflicted Africa. On May 19, the people in the town of Phalodi lived through the hottest day in the recorded history of In-

Continued on Page A8

In Farewell, Obama Sets Red Lines That Would Pull Him Back

By MICHAEL D. SHEAR
and PETER BAKER

WASHINGTON — When President Obama arrived in office eight years ago, the departing President George W. Bush essentially withdrew from public life, declaring that his successor "deserves my silence." It was an approach that Mr. Obama greatly appreciated but does not intend to follow.

At the final news conference of his presidency, Mr. Obama made clear on Wednesday that he finds some ideas advanced by President-elect Donald J. Trump so alarming that he laid out markers that would draw him back into the fray.

"There's a difference between

that normal functioning of politics and certain issues or certain moments where I think our core values may be at stake," Mr. Obama told reporters in the White House briefing room.

Mr. Obama continued: "I put in that category if I saw systematic discrimination being ratified in some fashion. I put in that category explicit or functional obstacles to people being able to vote, to exercise their franchise. I'd put in that category institutional efforts to silence dissent or the press. And for me at least, I would put in that category efforts to round up kids who have grown up here and for all practical purposes are American kids, and send them someplace else, when they love this

Pledge to Re-enter Fray When 'Core Values May Be at Stake'

country."

All of his red lines seemed to refer to positions taken in the past by Mr. Trump, foreshadowing the possibility of a periodic clash of ideas over the next four years between current and past presidents. Unlike Mr. Bush, who retreated to Dallas, Mr. Obama plans to move just two miles from the White House after Friday's inauguration, the first president to stay in Washington after leaving

office since Woodrow Wilson.

Mr. Obama did say he was looking forward to some quiet time and does not plan to stay involved in the hurly-burly of politics. He has told advisers and friends that he wants to be careful not to become such a regular public critic of Mr. Trump that he alienates the mercurial new president.

Since the election, the departing president has been

Continued on Page A11

HEALTH HEARING Representative Tom Price was vague on the Affordable Care Act. PAGE A15

LAST NOMINEE Sonny Perdue, ex-governor of Georgia, was picked for agriculture. PAGE A15

It's Not Happening!



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25 THINGS

YOU NEED TO KNOW »

Articles



Updated Articles
Updated articles
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The record global warming streak of 2014-2016: a snowball's chance in hell that this was natural

By Tom Yulsman | August 11, 2017 1:30 pm

By Tom Yulsman | August 11, 2017 1:30 pm

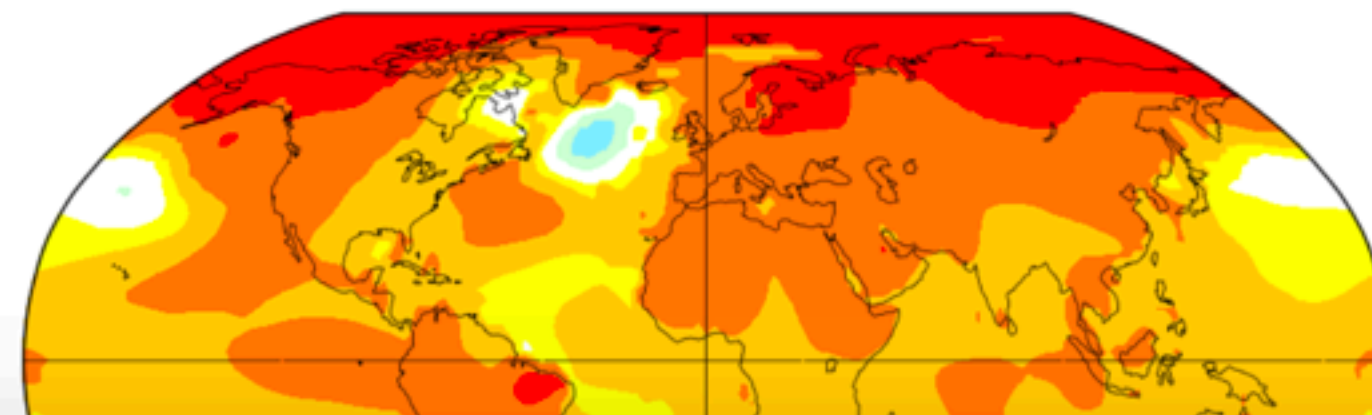


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Annual J-D 2014-2016

L-OTI(°C) Anomaly vs 1951-1980

0.87



in hell that this
was natural

System of Super-
Earths Discovered
Around A Nearby
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Canadians Are
First to Sample
Genetically
Modified Salmon

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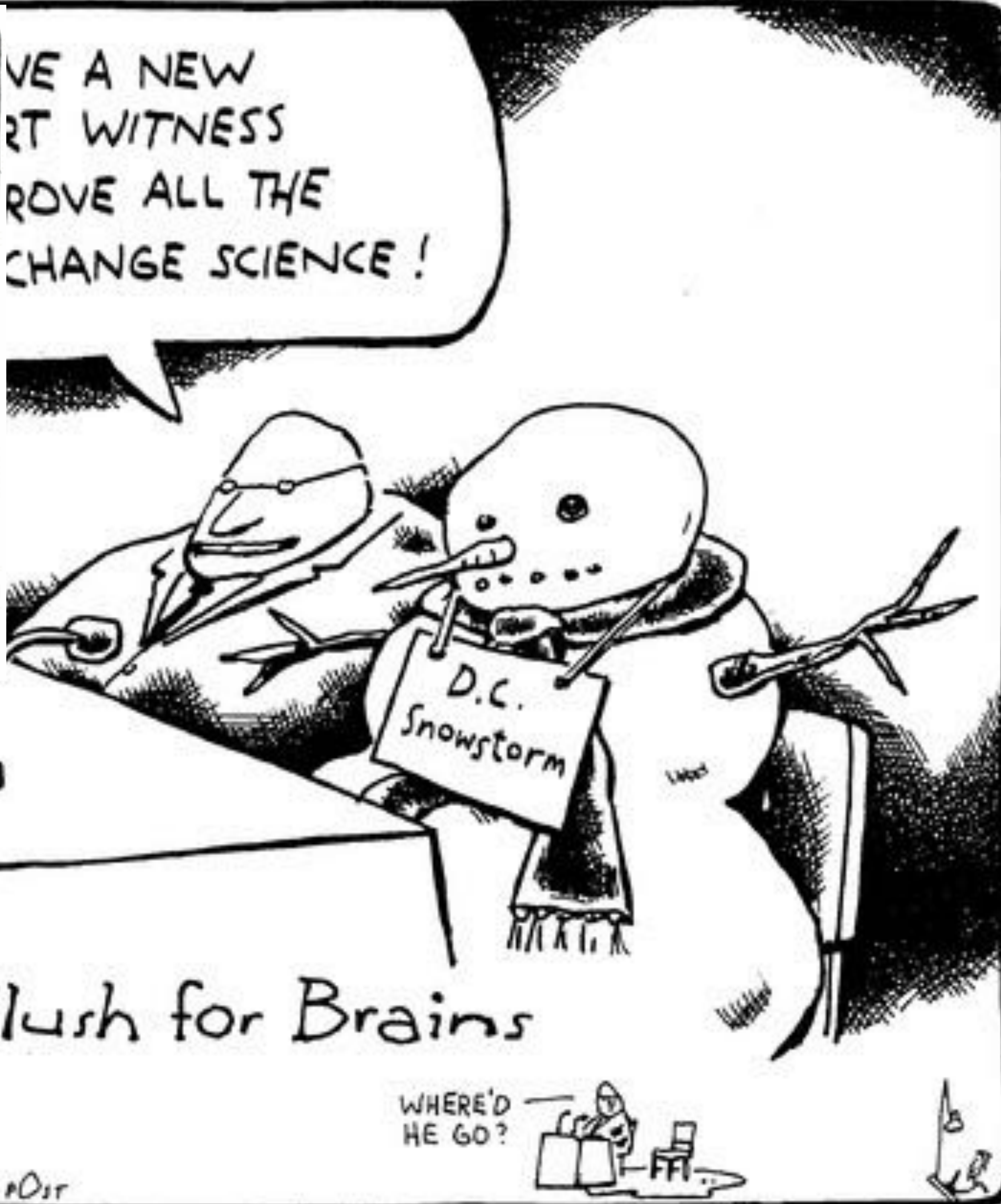
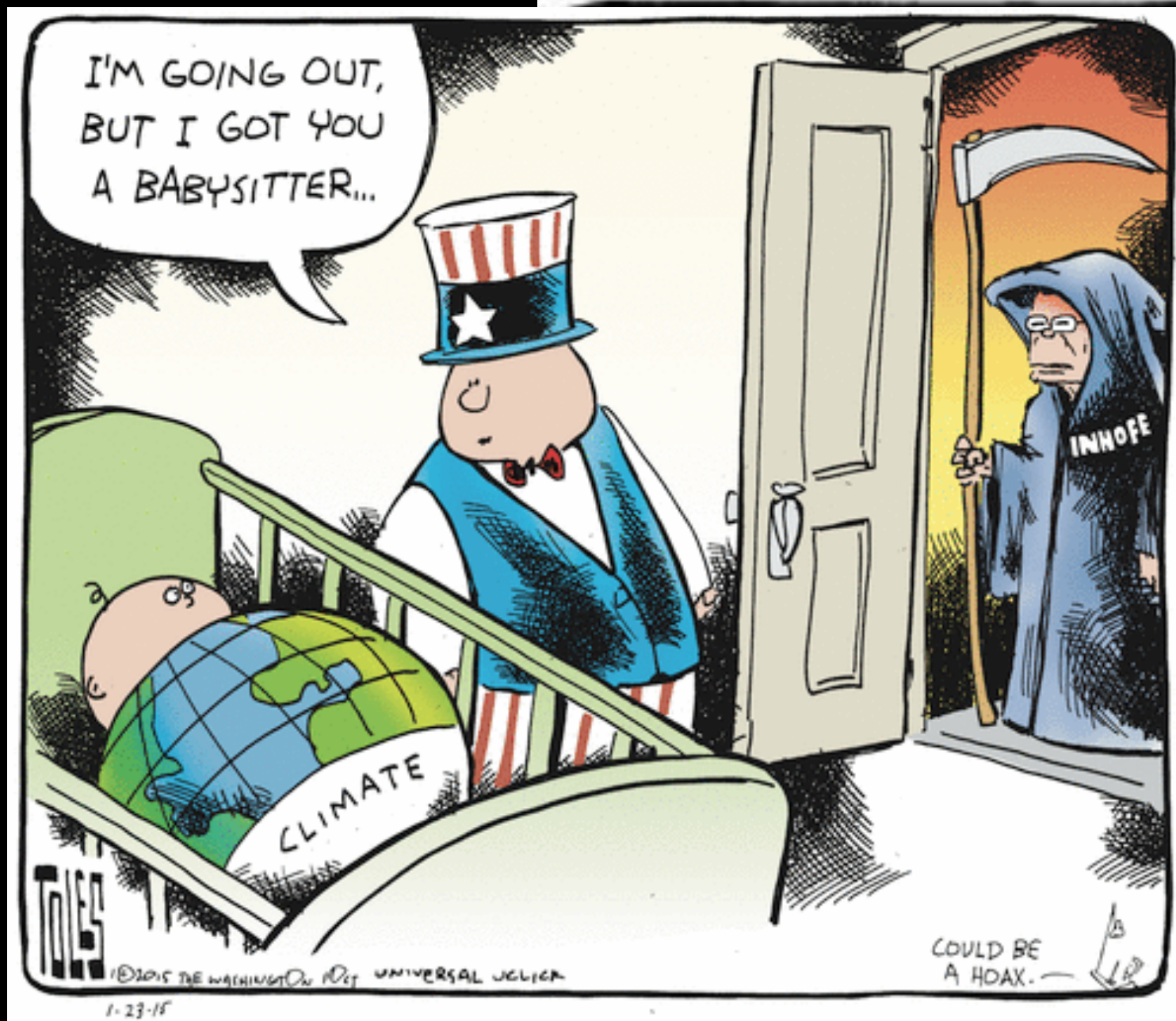
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“It’s natural!”



"It's natural!"

OPINION

REVIEW & OUTLOOK

When Carter Page Met Stefan Halper

Multiple media sources have now confirmed that American academic Stefan Halper is the "top secret" informant the FBI asked to slide up to Trump campaign officials in 2016. Some questions remain: Who asked Mr. Halper to keep tabs on the Trump officials, and when and why?

The answers go to the credibility of the Federal Bureau of Investigation's claim that it didn't open an official counterintelligence probe into Trump-Russia collusion until July 27, 2018. The answers might also show if Obama Administration officials knew about this mission, or if political actors working for the Clinton campaign such as Fusion GPS played a role.

One mystery remains Mr. Halper's interaction with Trump aide Carter Page. The New York Times reported on Friday that Mr. Halper's contact with Trump officials began only after the July 14 breach of the probe. The story notes that Mr. Halper "made no attempt to advise" George Papadopoulos, the Trump campaign adviser who told Mr. Page "in the coming months" and "within weeks" that Trump officials had "a lot of information" about the Russian president.

But Mr. Page only met Mr. Halper in person at a dinner in England's University of Cambridge, where Mr. Halper is an emeritus professor. Mr. Page says the invitation to that event came much earlier—the end of March or early April. Mr. Page declined to say who invited him but says it was someone other than Mr. Halper.

Mr. Halper had a continuous role in the symposium. The event was hosted by the Centre for International Politics, a Cambridge research and education center. The official sponsor was another Cambridge-based center, the Centre for International Politics and Studies of Republicanism. In a letter to Mr. Page, Mr. Schrage ended by saying that the event was supported by Cambridge's Department of Politics and International Studies—Mr. Halper's department.

A Right To Try Arrives

The House on Tuesday passed a bill that would allow states to create a "right to try" program, allowing terminally ill patients to access experimental drugs. The bill is a compromise between a House version that would have required FDA approval and a Senate version that would have required FDA approval.

Suffer the Little Children

When a child is diagnosed with a life-threatening illness, parents often turn to the Internet for information. But the Internet is a double-edged sword. While it can provide valuable information, it can also be a source of misinformation and fear.

LETTERS TO THE EDITOR

Water's Rising Because It's Getting Warmer

Would the Journal run the op-ed "Objects Are Falling, but Not Because of Gravity"? That's pretty similar to climate contrarian Fred Singer saying "The Sea Is Rising, but Not Because of Climate Change" (op-ed, May 16).

No, ice is not accumulating on Earth—it is melting. No, Antarctica isn't too cold for melting—warming oceans are eroding the ice from beneath, destabilizing the ice sheet. And no, legitimate scientific conclusions are not reached in op-ed pieces, but through careful peer-reviewed research.

That research shows that sea levels are rising and human-caused climate change is the cause. Don't take our word for it; help yourself to the mountain of scientific literature showing as much. When water warms, it expands. When ice warms, it melts. To deny these facts is not just to deny climate change. It is to deny basic physics.

New York City experienced an additional 25 square miles of flooding from the approximately one foot of sea-level rise that has occurred due to human-caused warming. Without concerted efforts to reduce carbon emissions, it could experience as much as eight feet by the end of the century—permanently inundating most of Wall Street.

Asst. Prof. ANDREA L. DUTTON
University of Florida
Gainesville, Fla.
Prof. MICHAEL E. MANN
Penn State University
University Park, Pa.

Fred Singer leaves out any real evidence to refute research attributing the measured sea-level rise almost exactly to the measured thermal expansion of seawater and glacier melt. See: SHANTON WERNICKE (D, R.I.)
Newport, R.I.

Our emissions will continue shaping how much sea rise in the coming decades. Taking this threat highly endangers hundreds of communities in the U.S. and world-wide, and wastes the dwindling time we have to reduce our risk by cutting carbon emissions and investing in resilience. Since 1900, global sea level has risen by seven to eight inches.

U.S. Allies Are Short

U.S. allies are short on resources and personnel. The U.S. is the only country in the world that has a large, professional, and well-trained military. This is a major advantage for the U.S. in the current global environment.

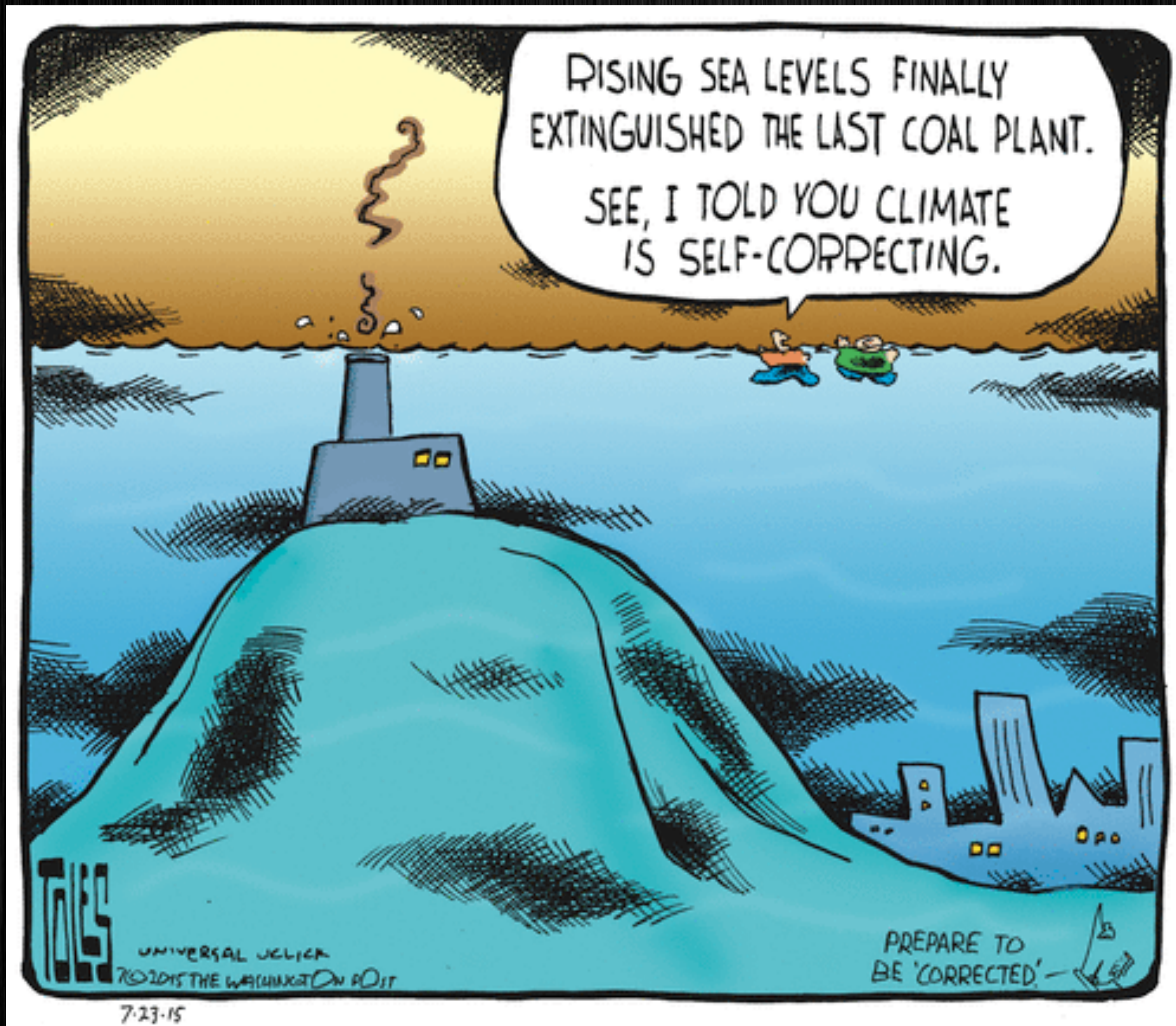
Sea-level rise has brought more frequent flooding to dozens of coastal communities, including Atlantic City, N.J. and Charleston, S.C., where the number of floods has quadrupled since 1970. The pace of sea-level rise has recently doubled.

Mr. Singer acknowledges there's "good data showing sea levels are in fact rising at an accelerating rate," yet makes the unscientific claim that this is disconnected from rising global-warming emissions and temperatures. The risks are clear. Sea-level rise projections for 2100 range from one foot to more than eight feet—far greater than the six inches Mr. Singer claims. Swiftly reducing our global-warming emissions would give us the best chance to minimize sea-level rise, but our current emissions trajectory makes achieving the range's low end more unlikely each day.

KRISTINA DAHL, PH.D.
Union of Concerned Scientists
Oakland, Calif.

NASA disagrees with Prof. Singer. A Feb. 13 paper notes: "Rising concentrations of greenhouse gases in Earth's atmosphere increase the temperature of air and water, which causes sea level to rise in two ways. First, warmer water expands, and this 'thermal expansion' of the ocean has contributed about half of the 2.8 inches (7 centimeters) of global mean sea-level rise we've seen over the last 25 years. . . . Second, melting land ice flows into the ocean, also increasing sea level across the globe."

WENDY FLEISCHER
Brooklyn, N.Y.



TEMPERATURE SCALE
“It’s self-correcting!”

POLITICS

Pruitt suggests warm

By Lorraine Chow
41m

Climate →

3 EXCL
1.9K vi

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USA TODAY NEWS SPORTS LIFE MONEY TECH TRAVEL OPINION 28° CROSSWORDS OLYMPICS VIDEO NEWSLETTERS

EPA chief Scott Pruitt: Global warming may be a good thing

John Bacon, USA TODAY

Published 10:12 a.m. ET Feb. 8, 2018 | Updated 10:33 a.m. ET Feb. 8, 2018



EPA Administrator Scott Pruitt said yesterday that humans benefit from warmer temperatures. He's pictured in the Senate last week. Pablo Martinez Monsivais/Associated Press

"It's a GOOD thing!"



HAPPENING NOW

SEARCH FOR SURVIVORS AFTER DEADLY LANDSLIDES
AT LEAST 17 KILLED AMID WIDESPREAD DEVASTATION

"It's a GOOD thing!"

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Climate change

Climate change 'will push European cities towards breaking point'

Study highlights urgent need to adapt urban areas to cope with floods, droughts and heatwaves

Tom White
Tue 20 Feb 2018 19:01 EST

2,190




▲ A rescue boat in a flooded street of Nemours, near Paris, France, after downpours in June 2016. Photo: Kenzo Tribouillard/AFP/Getty Images

CNN World » Tuscany: Heavy rains, flash floods leave 6 dead

By Valentina Di Donato and Eliza Mackintosh, CNN
Updated 7:17 AM ET, Mon September 11, 2017

Tuscany: Heavy rains, flash floods 6 dead



A man piles wrecked furniture outside his home in the Livorno area, flooded after heavy rain, on September 10, 2017.

Rome (CNN) — At least six people have been killed and two are still missing after heavy rainstorms triggered severe flooding in Italy's Tuscany region over the weekend.

Four members of one family trapped in their basement apartment died in the city of Livorno, which has taken on the brunt of the flooding.

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Europe

Extreme heat warnings issued in Europe as temperatures pass 40C

Authorities in 11 countries warn residents and tourists to take precautions amid region's most intense heatwave - nicknamed Lucifer - since 2003

Jon Henley European affairs correspondent
Fri 4 Aug 2017 11:38 EDT
17,290



▲ Children play in a jet stream fountain in Pamplona, Spain. Photograph: Villar Lopez/EPH

Eleven southern and central European countries have issued extreme heat warnings amid a brutal heatwave, nicknamed Lucifer, with residents and

HOME | SEARCH

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EUROPE

Europe Swelters Under a Heat Wave Called 'Lucifer'

By THE NEW YORK TIMES | AUG. 6, 2017




“It's a GOOD thing!”

ENVIRONMENT | AUGUST 4, 2017 / 8:54 AM / 10 MONTHS AGO

'Lucifer' heat wave holds Italy, eastern Europe in fiery grip

Maja Zuvella, Aleksandar Vasovic | 4 MIN READ

SARAJEVO/BELGRADE (Reuters) - Swathes of southern and eastern Europe sweltered in temperatures above 40 degrees Celsius (104°F) on Friday in a heat wave nicknamed "Lucifer" that has fanned forest fires, triggered weather warning alerts and damaged crops.



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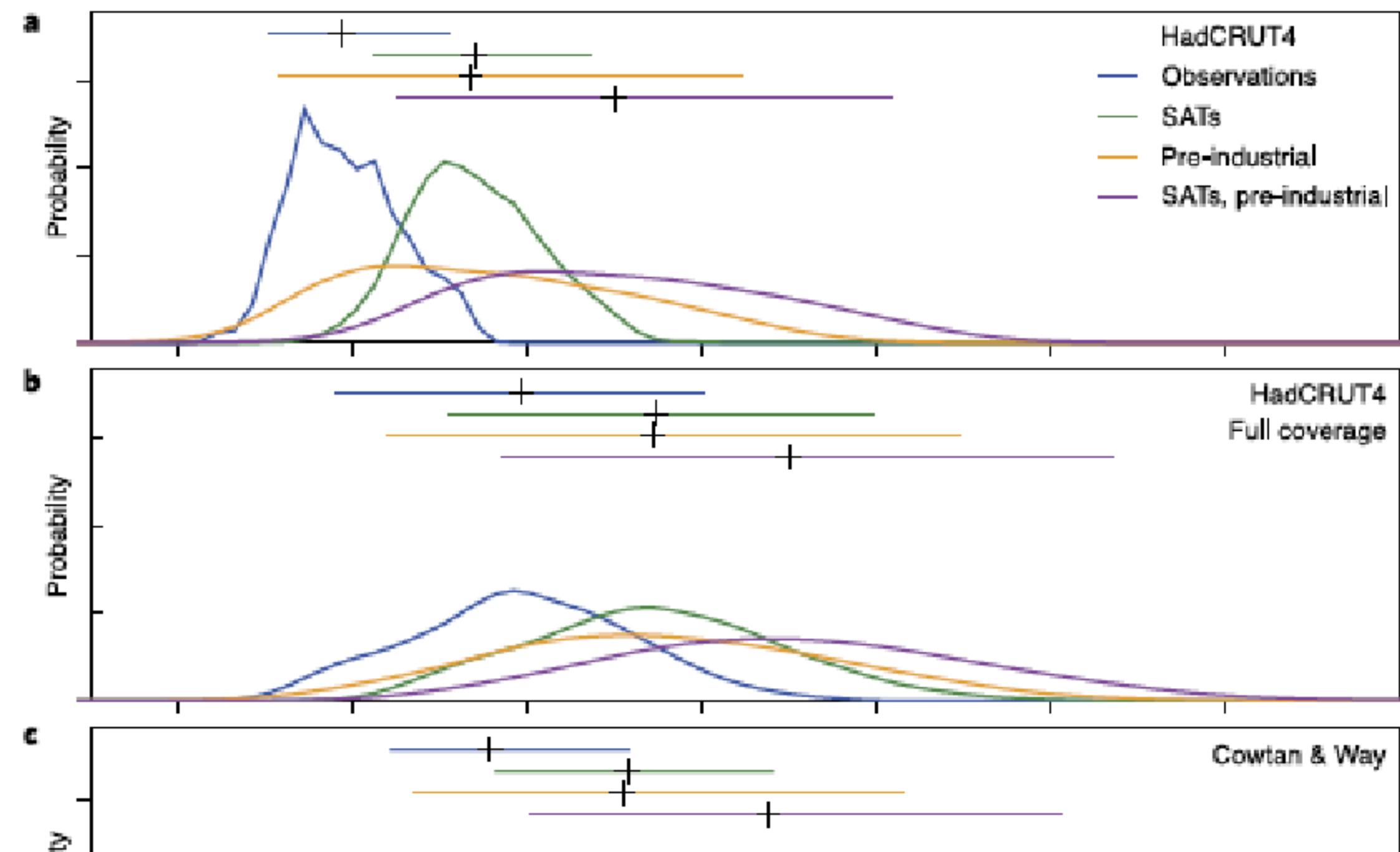
Italy drought: Rome forced to cut water pressure at night

© 29 August 2017



Interpretations of the Paris climate target

To the Editor — In the 2015 UNFCCC Paris Agreement, article 2 expresses the target of “Holding the increase in global temperature to well below 2 °C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5 °C ... recognizing that this would significantly reduce the risks and impacts of climate change”¹. Different interpretations of the precise meaning of the phrases ‘increase in global temperature’² and ‘pre-industrial’³ could have large effects on mitigation requirements and corresponding social, policy and political responses. Here we suggest that levels of current global mean surface warming since pre-industrial times that are higher than those derived by Millar et al. could have been calculated using alternative, but equally valid, assumptions as the ones made by those authors.



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NO ALARM
CLOCKS. —

“It’s too late anyway...”

Chapter 5. The War on Climate Science



10.29.09

Chapter 6. Hypocrisy—thy name is Climate Change Denial



Ken Cuccinelli (the “Cooch”)



ATTORNEY GENERAL KEN

EDITORIALS

U-Va. should fight Cuccinelli's faulty investigation of Michael Mann

Friday, May 7, 2010

The Washington Post

WE KNEW Virginia Attorney General Ken Cuccinelli II (R) had declared war on reality. Now he has declared war on the freedom of academic inquiry as well. We

EDITORIALS

University of Virginia should fight the Va. attorney general's inquiry

Thursday, May 13, 2010

The Washington Post

VIRGINIA A decided to m climate scien should coope

EDITORIALS

U-Va. admirably resists Mr. Cuccinelli's fishing expedition

Saturday, May 29, 2010

The Washington Post

AFTER WEEKS of consideration, [the University of Virginia](#) has decided to fight Virginia's Attorney General's inquiry into the

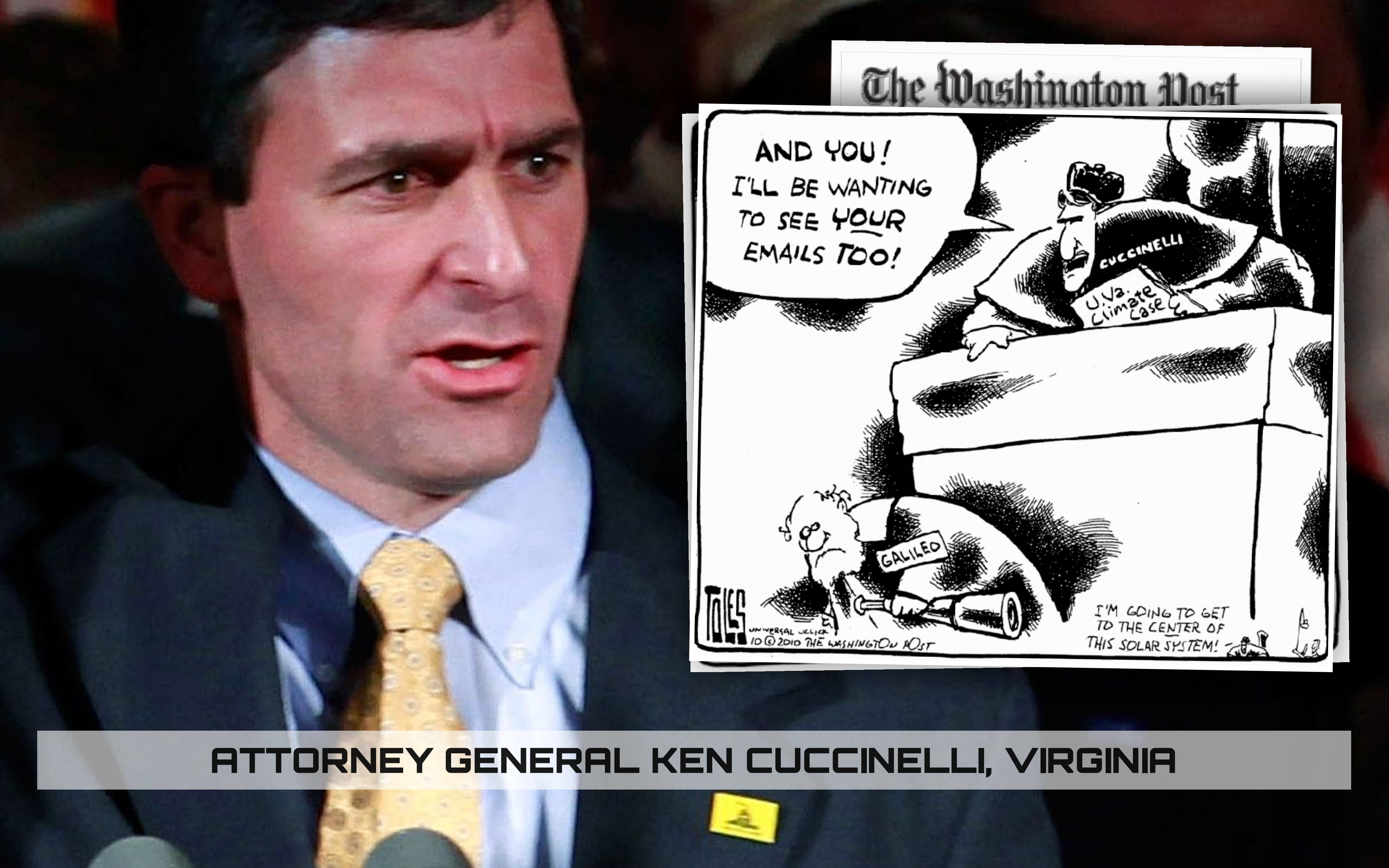
EDITORIALS

A judge puts a damper on Mr. Cuccinelli's U-Va. witch hunt

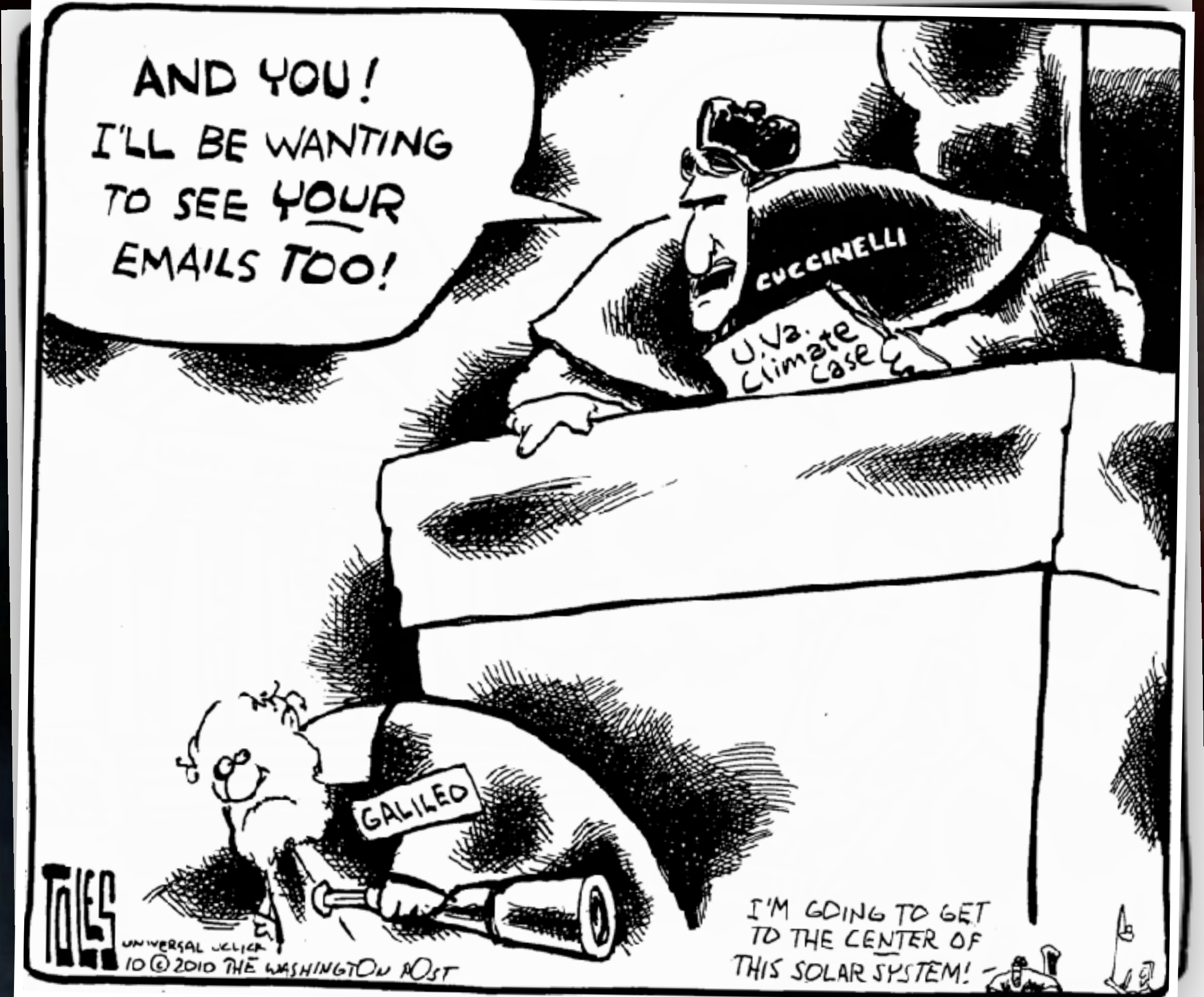
Tuesday, August 31, 2010

The Washington Post

EARLY THIS YEAR, climate-change skeptics went on the attack, pointing to two molehills of scandal that they claimed were towering peaks of scientific malfeasance. One was "Climategate," in which skeptics used [highly selective excerpts of stolen e-mails](#) in an effort to discredit some well-known scientists. The other was the identification of errors in the last assessment of the Intergovernmental Panel on Climate Change (IPCC) -- the canon of the international consensus on global warming -- particularly a dubious [prediction that Himalayan glaciers](#) would disappear by 2035.



The Washington Post



ATTORNEY GENERAL KEN CUCCINELLI, VIRGINIA



ATTORNEY GENERAL

CLIMATE

Ken Cuccinelli's New Business Will Not Survive Climate Change

BY [JOE ROMM](#) JAN 6, 2015 12:05 PM



CREDIT: AP PHOTO/STEVE HELBER

Former Virginia Attorney General Ken Cuccinelli (R)

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2,473

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What's the next step for a science-denying former politician? Launch a new business venture that will be utterly destroyed by human-caused climate in the coming decades. And if you wanted to pick a business venture that would be the most vulnerable to climate change, you could hardly do better than Ken Cuccinelli's new oyster farm on super-low-lying Tangier Island, Virginia.

climate scientist.

Chapter 7. Geoengineering, or “What could possibly go wrong?”

Energy and Environment

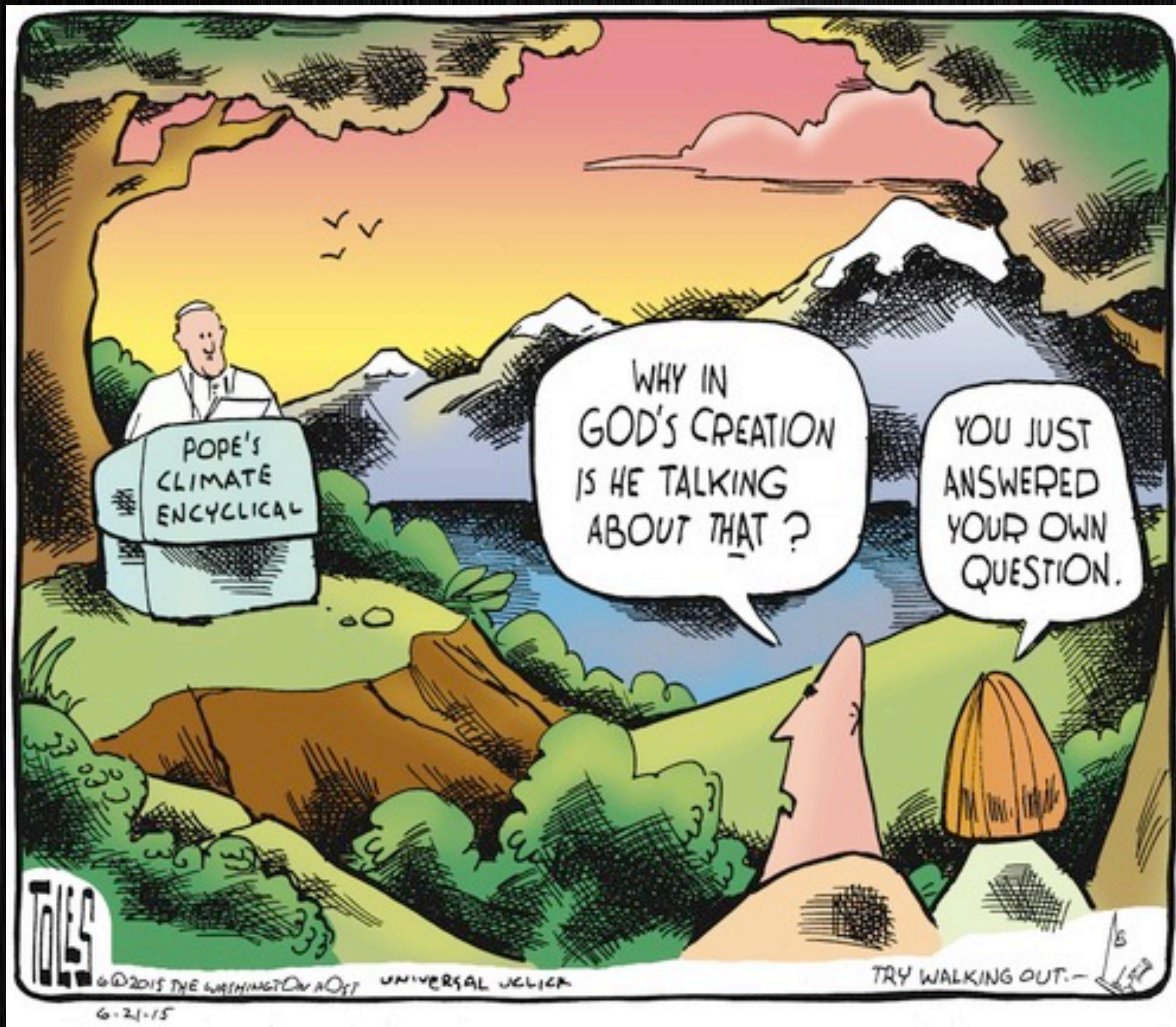
Rex Tillerson's view of climate change: It's just an 'engineering problem'

By **Chris Mooney** December 13 at 4:45 PM 



Rex Tillerson, ExxonMobil chairman and chief executive, during the 2015 Oil and Money conference in central London. (Ben Stansall/AFP/Getty Images)

Chapter 8. A Path Forward



Moral Leadership



Global Cooperation



Politics of Change

AdChoices

BEHOLD: TRUMP'S SCORCHED EARTH SQUAD

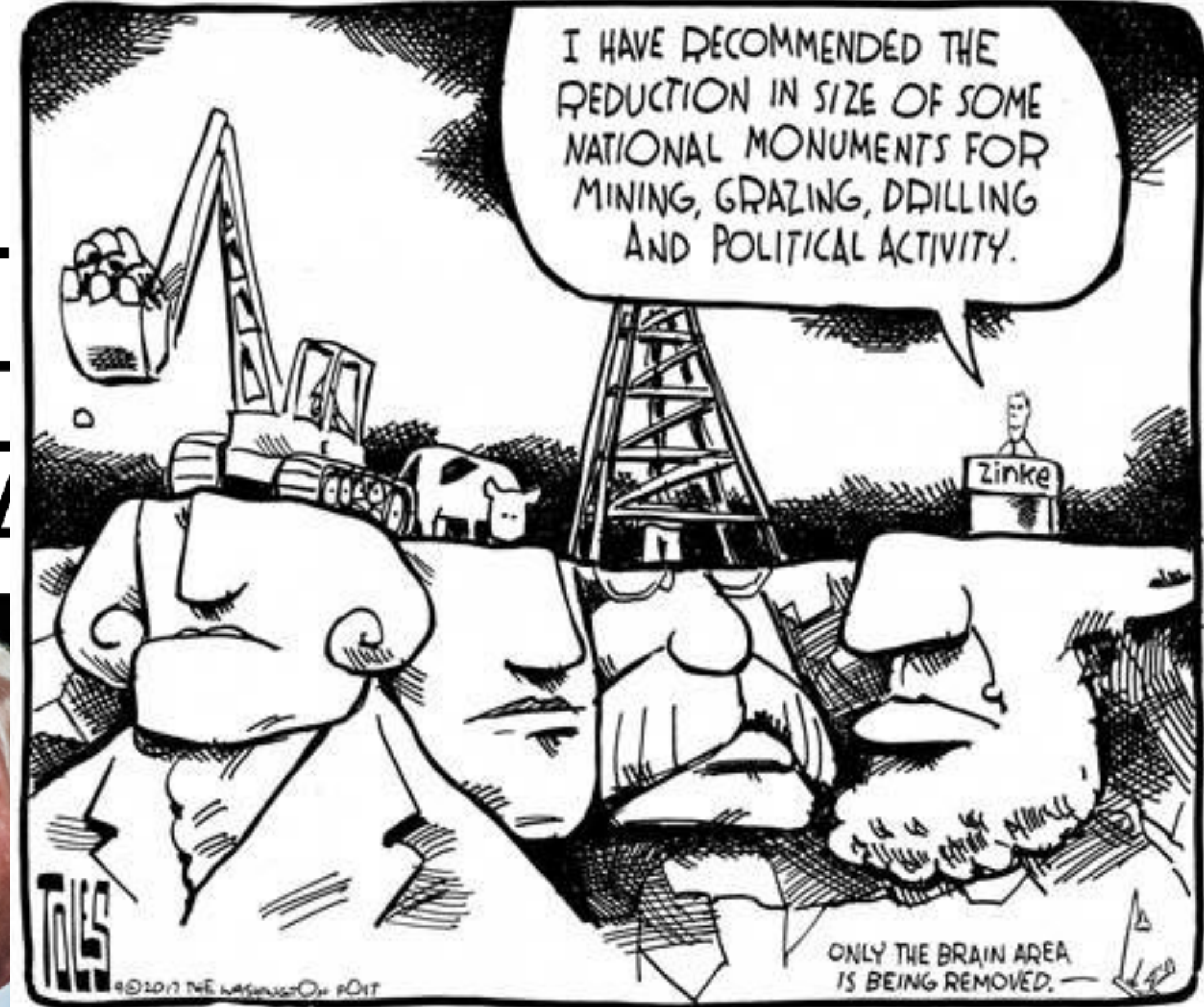


'Trump Is Creating A Government Of, By, And For The Oil And Gas Industry'...

Politics of Change



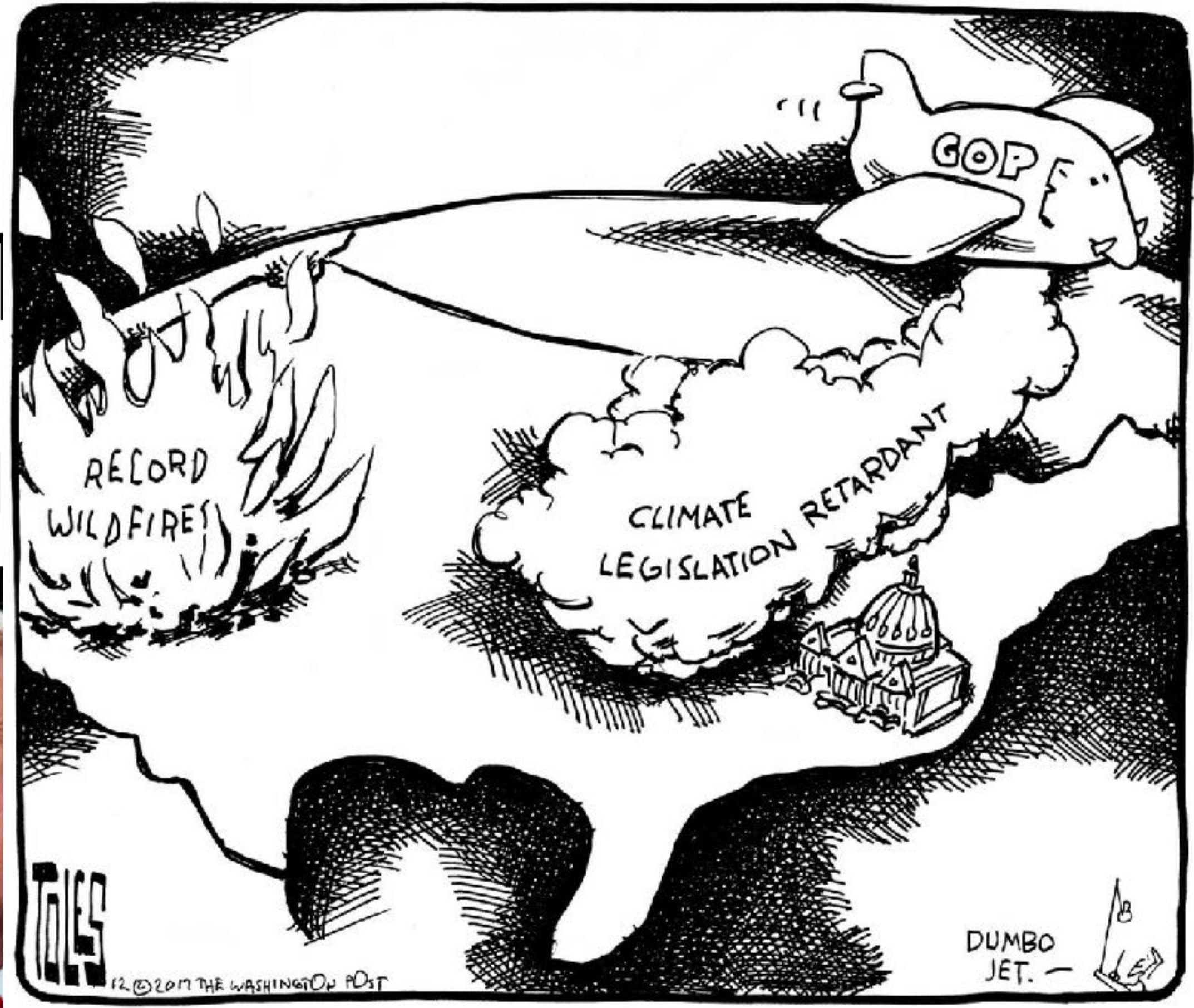
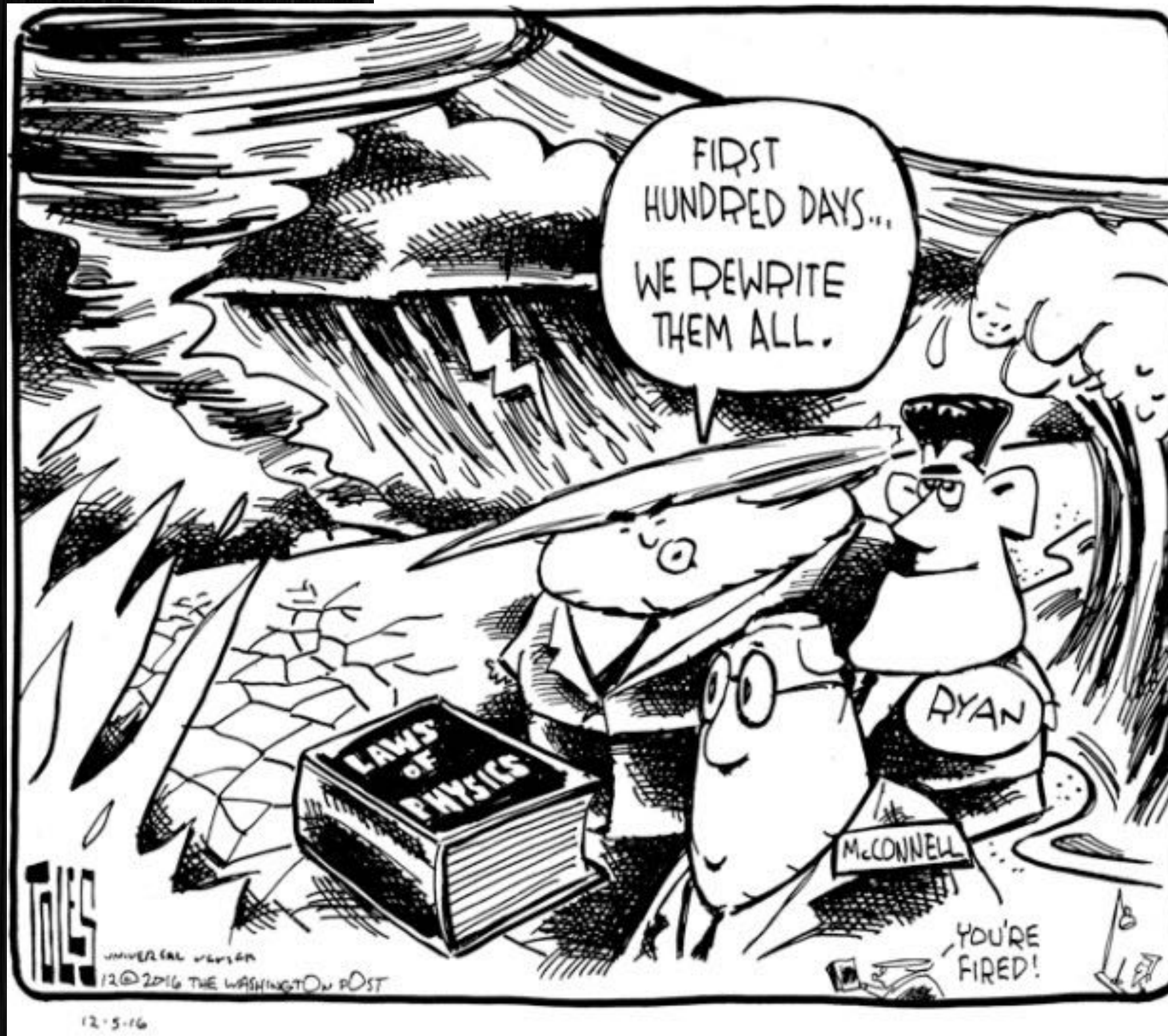
TELEVISION



'Trump Is Creating A Government Of, By, And For The Oil And Gas Industry'...



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'Trump Is Creating A Government Of, By, And For The Oil And Gas Industry'...

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Watch real climate scientist shoot down climate “skeptic” at GOP’s sham “science” hearing

WASHINGTON POST



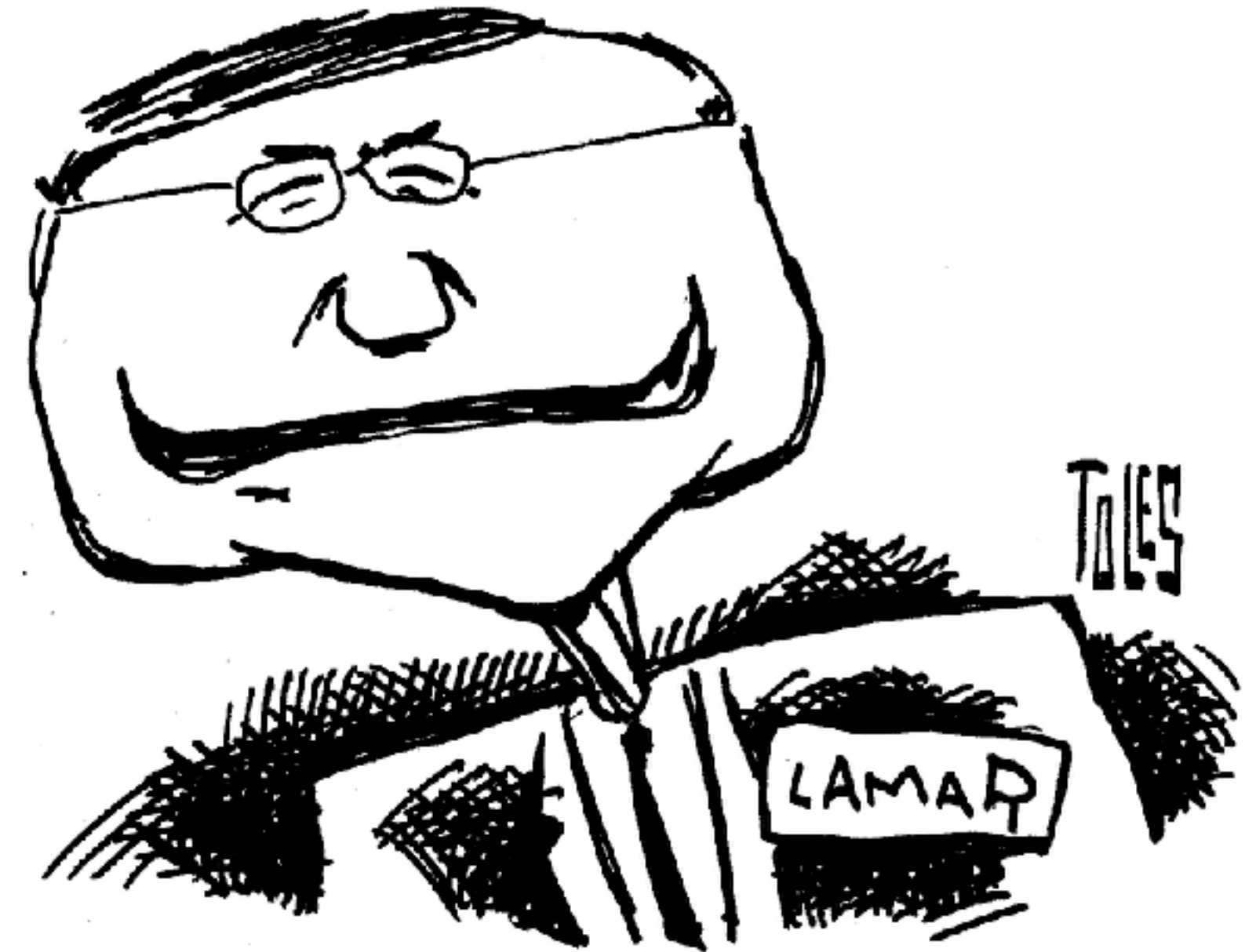
WHAT'S WORKING

VOICES

VIDEO

ALL SECTIONS

THE
ECONOMY
& U.S.



'Trump Is Creating A Government Of, By, And For The Oil And Gas Industry'...

Politics of Change

Gov. McAuliffe: Virginia will join U.S. climate alliance

Erin Patterson, WVEC

1:07 PM. EDT June 06, 2017



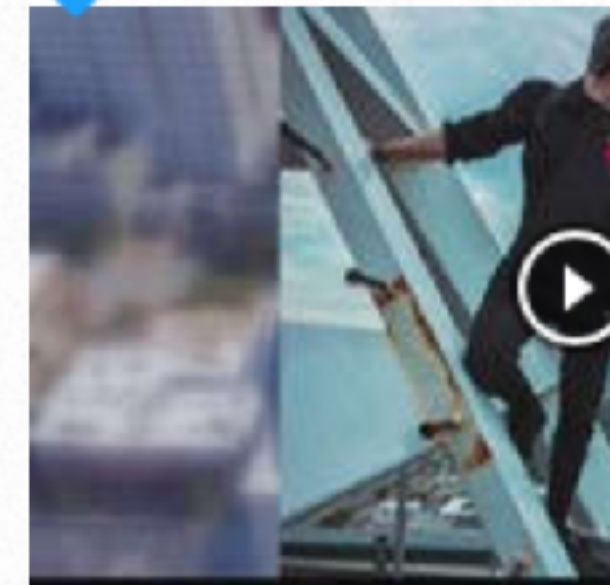
RICHMOND, Va. (AP/WVEC) - Virginia Gov. Terry McAuliffe is joining a coalition of 11 other governors who say they are committed to meeting the goals of the Paris Climate Agreement.

McAuliffe said on Monday that Virginia is joining the U.S. Climate Alliance, despite President Donald Trump's decision to withdraw the federal government.

His statement:

“As the first state in the Trump era to take executive action to limit carbon emissions and create clean energy jobs, Virginia is proud to join the Climate Alliance. President Trump's announcement to withdraw the United States from the Paris Climate Agreement does not speak for the states and cities that are committed to fighting climate change and paving the way for a new energy economy. If the federal government insists on abdicating leadership on this issue, it will be up to the American people to step forward -- and in Virginia we are doing just that.”

TRENDING



Killfies

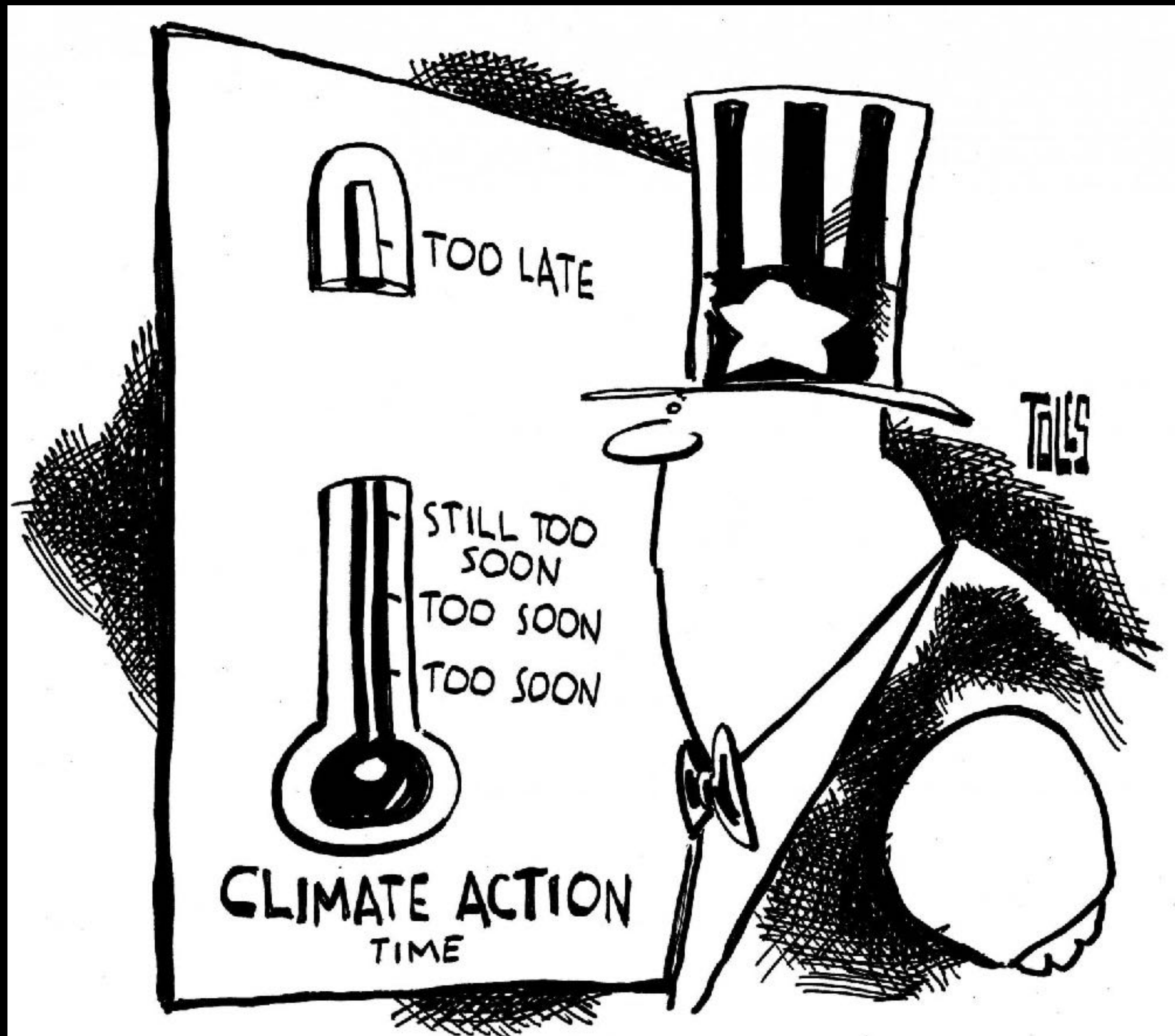


Man arrested



Weather

Politics of Change



The Dangers of Defeatism



Earth In the Balance