

# Big climate report: Warming is big risk for people

March 24 2014, by Seth Borenstein

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In this Jan. 9, 2008, file photo provided by UNICEF a woman and child wade in flood waters in Mutarara, Mozambique in the Tete district. Thousands of people who lost their homes in floods last year are at risk again as the rising Zambezi river waters threaten their resettlement camps. Top climate scientists are gathering in Japan to finish up a report on the impact of global warming. And they say if you think climate change is only faced by some far-off polar bear decades from now, well, you're mistaken. They say the dangers of a warming Earth are immediate and human. (AP Photo/Theirry Delvigne-Jean UNICEF)

Top climate scientists are gathering in Japan this week to finish up a report on the impact of global warming. And they say if you think climate change is only faced by some far-off polar bear decades from now, well, you're mistaken.

In fact, they will say, the dangers of a warming Earth are immediate and very human.

"The polar bear is us," says Patricia Romero Lankao of the federally financed National Center for Atmospheric Research in Boulder, Colorado, referring to the first species to be listed as threatened by [global warming](#) due to melting sea ice.

She will be among the more than 60 scientists in Japan to finish writing a massive and authoritative report on the impacts of global warming. With representatives from about 100 governments at this week's meeting of the Intergovernmental Panel on Climate Change, they'll wrap up a summary that tells world leaders how bad the problem is.

The key message from leaked drafts and interviews with the authors and other scientists: The big risks and overall effects of global warming are far more immediate and local than scientists once thought. It's not just about melting ice, threatened animals and plants. It's about the human problems of hunger, disease, drought, flooding, refugees and war, becoming worse.

The report says scientists have already observed many changes from warming, such as an increase in [heat waves](#) in North America, Europe, Africa and Asia. Severe floods, such as the one that displaced 90,000 people in Mozambique in 2008, are now more common in Africa and Australia. Europe and North America are getting more intense downpours that can be damaging. Melting ice in the Arctic is not only affecting the [polar bear](#), but already changing the culture and livelihoods

of indigenous people in northern Canada.

Past panel reports have been ignored because global warming's effects seemed too distant in time and location, says Pennsylvania State University scientist Michael Mann.

This report finds "It's not far-off in the future and it's not exotic creatures—it's us and now," says Mann, who didn't work on this latest report.

The United Nations established the climate change panel in 1988 and its work is done by three groups. One looks at the science behind global warming. The group meeting in Japan beginning Tuesday studies its impacts. And a third looks at ways to slow warming.

Its reports have reiterated what nearly every major scientific organization has said: The burning of coal, oil and gas is producing an increasing amount of heat-trapping greenhouse gases, such as carbon dioxide. Those gases change Earth's climate, bringing warmer temperatures and more extreme weather, and the problem is worsening.

The panel won the Nobel Peace Prize in 2007, months after it issued its last report.



In this March 19, 2013, file photo, a trickle of water left in the Rio Grande is pushed downstream by the wind near the Chile growing community of Hatch, N.M. In southern New Mexico, the mighty Rio Grande has gone dry, and farmers are worried about dwindling water supplies as the state enters its third straight year of drought. Top climate scientists are gathering in Japan this week to finish up a report on the impact of global warming. And they say if you think climate change is only faced by some far-off polar bear decades from now, well, you're mistaken. They say the dangers of a warming Earth are immediate and human. While it doesn't say these events were caused by climate change, the report mentions droughts in northern Mexico and south-central United States, as showing how vulnerable people are to these weather extremes. (AP Photo/Susan Montoya Bryan, File)

Since then, the impact group has been reviewing the latest research and writing 30 chapters on warming's effects and regional impacts. Those chapters haven't been officially released but were posted on a skeptical website.

The key message can be summed up in one word that the overall report

uses more than 5,000 times: risk.

"Climate change really is a challenge in managing risks," says the report's chief author, Chris Field of the Carnegie Institution of Science in California. "It's very clear that we are not prepared for the kind of events we're seeing."

Already the effects of global warming are "widespread and consequential," says one part of the larger report, noting that science has compiled more evidence and done much more research since the last report in 2007.

If climate change continues, the panel's larger report predicts these harms:

— **VIOLENCE:** For the first time, the panel is emphasizing the nuanced link between conflict and warming temperatures. Participating scientists say warming won't cause wars, but it will add a destabilizing factor that will make existing threats worse.

— **FOOD:** Global food prices will rise between 3 and 84 percent by 2050 because of warmer temperatures and changes in rain patterns. Hotspots of hunger may emerge in cities.

— **WATER:** About one-third of the world's population will see groundwater supplies drop by more than 10 percent by 2080, when compared with 1980 levels. For every degree of warming, more of the world will have significantly less water available.

— **HEALTH:** Major increases in health problems are likely, with more illnesses and injury from heat waves and fires and more food and water-borne diseases. But the report also notes that warming's effects on health is relatively small compared with other problems, like poverty.

— WEALTH: Many of the poor will get poorer. Economic growth and poverty reduction will slow down. If temperatures rise high enough, the world's overall income may start to go down, by as much as 2 percent, but that's difficult to forecast.



In this Jan. 28, 2009, file photo, a spectator applies sun cream while others eat ice cream as they try to keep cool in the scorching heat on Rod Laver Arena at the Australian Open tennis tournament in Melbourne, Australia. Top climate scientists are gathering in Japan this week to finish up a report on the impact of global warming. And they say if you think climate change is only faced by some far-off polar bear decades from now, well, you're mistaken. They say the dangers of a warming Earth are immediate and human. The report says risks from warming-related extreme weather are at the moderate level now, but are likely to become high with just a bit more warming. While it doesn't say events were caused by climate change, the report mentions heat waves in Australia. (AP Photo/Rick Stevens, File)

According to the report, risks from warming-related extreme weather, now at a moderate level, are likely to get worse with just a bit more warming. While it doesn't say climate change caused the events, the report cites droughts in northern Mexico and the south-central United States, and hurricanes such as 2012's Sandy, as illustrations of how vulnerable people are to weather extremes. It does say the deadly European heat wave in 2003 was made more likely because of global warming.

Texas Tech University climate scientist Katharine Hayhoe, who was not part of this [report](#) team, says the important nuance is how climate change interacts with other human problems: "It's interacting and exacerbating problems we already have today."

University of Colorado science policy professor Roger Pielke Jr., a past critic of the panel's impact reports, said after reading the draft summary, "it's a lot of important work ... They made vast improvements to the quality of their assessments."

Another critic, University of Alabama Huntsville professor John Christy, accepts man-made global warming but thinks its risks are overblown when compared with something like poverty. Climate change is not among the developing world's main problems, he says.

But other scientists say Christy is misguided. Earlier this month, the world's largest scientific organization, the American Association for the Advancement of Science, published a new fact sheet on global warming.

It said: "Climate change is already happening. More heat waves, greater sea level rise and other changes with consequences for human health, natural ecosystems and agriculture are already occurring in the United States and worldwide. These problems are very likely to become worse over the next 10 to 20 years and beyond."

Texas Tech's Hayhoe says scientists in the past may have created the impression that the main reason to care about [climate change](#) was its impact on the environment.

"We care about it because it's going to affect nearly every aspect of human life on this planet," she says.

**More information:** The Intergovernmental Panel on Climate Change: [www.ipcc.ch](http://www.ipcc.ch)

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