



# Sea levels could rise more than a metre by 2100, experts say



Sea-level rise is faster than previously believed and could exceed 1 metre by the end of the century unless global emissions are reduced, according to a survey of more than 100 specialists.

Based on new knowledge of climate sensitivity and polar ice melt, the experts say coastal cities should prepare for an impact that will hit sooner than predicted by the United Nations and could reach as high as 5 metres by 2300.

“A global sea-level rise by several metres would be detrimental for many coastal cities such as Miami, New York, Alexandria, Venice, Bangkok, just to

## COVID-19

**Every dollar is good.**

The fund will purchase everything necessary - in accordance with the official requests of hospitals. The doctors of each hospital will get what they need.

**Support doctors across America.**

## CORONA VIRUS DATA



United States

Last Updated: 12 minutes ago

### Confirmed Cases

1,342,723

### New Cases

20,938

name a few well-known examples. Some may have to be abandoned altogether as they cannot be defended,” said co-author Stefan Rahmstorf, from the Potsdam Institute for Climate Impact Research in Germany.

In the worst-case scenario – with rising emissions and global heating of 4.5C above pre-industrial levels – the study estimates the surface of the world’s oceans in 2100 will be between 0.6 and 1.3 metres higher than today, which would potentially engulf areas home to hundreds of millions of people.

By contrast, if humanity succeeds in cutting carbon dioxide and holding the increase in temperature to 2C, the rise would be a more manageable 0.5 metre.

The figures for both pathways are more pessimistic than those outlined by the UN intergovernmental panel on climate change (IPCC), which predicts the worst possibility is a 1.1-metre rise by 2100.

The gap reflects advances in climate science and differences in approach. The IPCC works largely through consensus among scientific working groups, which tends to produce relatively conservative estimates.

By contrast, the new survey – published in the journal *Climate and Atmospheric Science* – aggregates the views of 106 specialists, who were chosen because they have published at least six peer-reviewed papers on the subject in major academic journals. As a result, the predictions are more representative of a range of views in the field.

The higher estimates highlight growing concern about the world’s two biggest ice sheets, in Antarctica and Greenland. Satellite data and on-the-ground measurements show these regions are melting faster than most computer models predicted. Many of the scientists said there was now greater understanding of the risks posed by marine ice-cliff instability, which can lead to the collapse of ice shelves.

The study was led by scientists at the Nanyang Technological University in Singapore with support from seven research institutions across the world, including Durham University in the UK, Tufts University in the US and the Potsdam Institute for Climate Impact Research in Germany.

The lead author, Prof Benjamin Horton of the university’s Asian School of the Environment, said the research aimed to condense the growing mass of academic studies about sea-level projections into a simple overview. “It is useful to survey leading experts on the expected sea-level rise, which provides a broader picture of future scenarios and informs policymakers so they can prepare necessary measures,” he said.

The authors said the results showed how much warming – and sea-level rise – could be avoided if governments fulfilled their 2015 Paris climate agreement promises to cut emissions of the gases that are heating the planet. Most countries are far off reaching their goals.

### Total Deaths

79,926

### New Deaths

1,311

### Total Recovered

232,869

### Active Cases

1,029,928

### in Critical

16,801

## CORONA VIRUS DATA

Last Updated: 12 minutes ago

### Confirmed Cases

4,085,613

“Like in the Covid pandemic, timing is critical to prevent devastation. If you wait until you already have a serious problem, then it is too late. Unlike with corona, sea-level rise cannot be stopped for many centuries or even millennia once ice sheets have been destabilised past their tipping points,” Rahmstorf said.

The coronavirus pandemic has temporarily slowed the discharge of carbon dioxide and methane because there are fewer cars on the road and industrial activity is lower. The [International Energy Agency](#) projects global fossil fuel emissions will decrease by 8% this year.

But, without deeper structural changes, the reduction is likely to be temporary and will make little difference to the build-up of greenhouse gases in the atmosphere. The Met Office predicted on Thursday carbon dioxide measurements at the Mauna Loa measuring station would rise 2.5 parts per million this year.

“Although emissions are reducing this year, this does not mean the build-up of CO2 in the atmosphere will reverse – it will just be slightly slower” the Met Office’s chief CO2 forecaster, [Richard Betts](#), said in a [blogpost](#).

“An analogy is filling a bath from a tap – it’s like we are turning down the tap, but because we are not turning off the tap completely, the water level is still rising.”

The Guardian

0 Comments

Sort by 

Oldest



Add a comment...

[Facebook Comments Plugin](#)

[← Collateralized Loan Obligations: Reason to Worry?](#)

[Isis suspect who defied coronavirus lockdown in Barcelona arrested →](#)

## Leave a Reply

You must be [logged in](#) to post a comment.

New Cases

76,322

Total Deaths

279,511

New Deaths

3,535

Total Recovered

1,427,059

Active Cases

2,379,043

in Critical

47,687

Affected Countries

214

SCO<sup>®</sup>  
paysystem



Surfshark<sup>®</sup>

## NEWS

---

**Victory Day:  
Belarus  
swaggers on  
parade as  
Russians...**

May 9, 2020

**20 apps to up  
your skills**

May 9, 2020

**Jumbo jet  
sunset:  
coronavirus  
hastens the end  
of...**

May 9, 2020

**If we want better conditions for Amazon staff...**

May 9, 2020

**Julia Roberts: No Met ball bubbly? There's always...**

May 9, 2020

## SPORTS

---



**Retr  
o  
Rob**

**Review:  
Dominick Cruz  
vs. T.J.  
Dillashaw...**

May 9, 2020



**Fra  
nci  
s**

**Ngannou  
surprised  
Jairzinho  
Rozenstruik  
called him out:...**

May 9, 2020



**Ton  
y  
Fer**

**guson is the right  
kind of wild...**

May 9, 2020



**Lyo  
n**

**POL  
ITIC  
S**

**ECO  
NO  
MY**

---

**Ocasio-Cortez Hits GOP Critic Of Her ‘Animal Crossing’...**

May 9, 2020

---

**FDA commissioner self-quarantines after contact with person who...**

May 9, 2020

---

**Biden raises \$2.7 million in first virtual fundraiser...**

May 9, 2020

---

**Ivanka Trump assistant tests positive for coronavirus, among...**

May 9, 2020

---

**Bernie Sanders**

**TECH &  
SCIENCE**

---



CO  
VID  
-19

is preventing  
offline  
environmental  
activism — but...

May 9, 2020



Virt  
ual  
and

augmented  
reality  
investment at  
2013 levels...

May 9, 2020



Ho  
w  
to

Check out the  
New  
Lamborghini  
Huracán...

May 9, 2020



Ru  
mo

## SPACE

---



Sol  
ar-  
saili

ng sentries could  
allow up-close  
study of  
interstellar...

May 9, 2020

Boba Fett  
returning for 'The

## Mandalorian' (played by...

May 9, 2020



Ho  
w  
to

## take better naps, according to astronauts

May 9, 2020

## See the Full Flower Moon, last supermoon of...

May 8, 2020

## Biosphere 2:

— . . .

### CATEGORIES

Auto

Books

Business & Finance

Cooking

Crime

Economy

Entertainment

Fashion & Beauty

Gaming

Health & Fitness

Humor

Men's Lifestyle



Music

---

News

---

Photo & Design

---

Politics

---

Psychology & Self-Improvement

---

Social media

---

Space

---

Sports

---

Tech & Science

---

Travel

---

World Sources

## ARCHIVES

Select Month

## RECENT POSTS

Victory Day:  
Belarus swaggers  
on parade as  
Russians leave Red  
Square deserted

---

Little Richard,  
outsized founding  
father of rock  
music, dies at 87

---

Julia Roberts: No  
Met ball bubbly?

There's always the bath

If we want better conditions for Amazon staff we need to be patient...

Jumbo jet sunset: coronavirus hastens the end of the Boeing 747

RECENT  
COMMENTS

SPORTS   POLITICS   TECH & SCIENCE  
ENTERTAINMENT   WORLD SOURCES  
GAMING   CRIME   COPYRIGHT  
CONTACTS

© All Rights Reserved. USA News Hub™ Online  
News Theme By [Rigorous](#)

