



**PREVIEW**

**There is no  
Plan(et) B**

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Podium about  
global warming  
[canipress.uk](http://canipress.uk)



## Air pollution in 3,000 cities

64% of cities exceed WHO guidelines

India has 22 of the top 30 polluted cities

# PREVIEW

Delhi

Every city in the Middle East and Africa exceeded World Health Organization (WHO) guidelines. The 10 worst polluted cities are all in India, Pakistan or China.

*Rankings include:*

1	Gurugram (India)	1,562	Berlin
122	Beijing	1,774	Manchester
920	Paris	1,907	Cardiff
1,511	Bristol	2,461	Glasgow
1,514	London	2,715	New York
1,551	Birmingham	2,851	Edinburgh

Source: Greenpeace & AirVisual

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# Deforestation

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The Amazon Rainforest produces 20% of the world's oxygen. It absorbs greenhouse gases so helps to offset climate change.

7,900 square kms of the Brazilian Amazon Rainforest were cleared in 12 months to July 2018. This is equivalent to 987,000 football pitches.

Source: Brazilian government



The World Health Organization  
measures air pollution  
in tiny, deadly particles which  
enter our lungs - PM10 levels.

PREVIEW





Floods in the Indonesian capital, Jakarta

## CLIMATE REFUGEES

**On average, 26m people are displaced by disasters every year. That's one person forced to flee every second.**

Climate change is a major factor in many disasters such as floods and hurricanes.

Climate change means more frequent and severe natural disasters which cause poverty and food shortages.

People living in the Developing World, particularly Asia, are most at risk.

*Source: Norwegian Refugee Council  
Photo: Eddy M*



# Climate change deal



Climate change threatens the planet with rising sea levels, floods, drought and heatwaves.

Paris 2015 Climate Change Conference: 196 countries agreed to limit the global temperature increase to between 1.5 and 2 degrees.

The aim: zero carbon emissions.

**BUT** President Trump has withdrawn the USA from the deal - the only country to reject it.



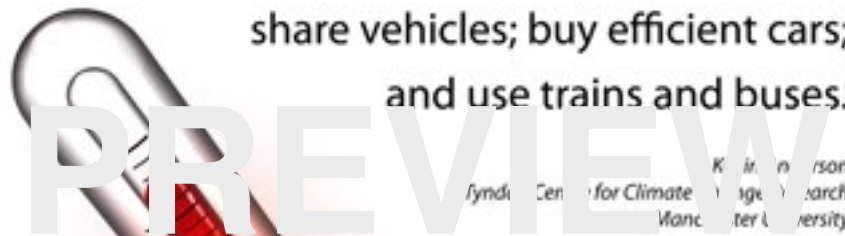
# Global Warming

'We must radically reduce our use of energy.

Curtail how often we fly; drive less;

share vehicles; buy efficient cars;

and use trains and buses.'



Kevin Anderson  
Tyndall Centre for Climate Change Research  
Manchester University

[kevinanderson.info](http://kevinanderson.info)

'Just 10% of  
the global  
population is  
responsible  
for around  
50% of total  
emissions.'

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# Sources of CO2



NASA simulation

**There is a record CO2 level  
in the atmosphere.**

About half of the emissions caused  
by human activity stay in the  
atmosphere, heating the planet.

Fossil fuels release CO2.

***Leading polluters:  
China, US, Europe, India, Russia***

CO2: carbon dioxide  
Source: NASA

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An appeal from the Marine Conservation Society UK

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**STOP**  
**the plastic tide!**

**Choking. Starving. Poisoning.**

**That's what plastic litter is doing to marine life.**

**You can change this.**

# Tourism's large carbon footprint

Travel by people from rich countries is chiefly responsible for the rapidly growing global footprint of tourism. This now accounts for 8% of global greenhouse gas emissions.

Transport, shopping and food are major contributors.

# PREVIEW



Source: Nature Climate Change, [nature.com](http://nature.com)



**By 2025 nearly half the world will be living in water-stressed areas.**

**PREVIEW**

By 2025 global temperatures rise, rainfall will become more extreme with long dry spells in some places and floods elsewhere.

- For example, without major reductions in greenhouse gas emissions, rainfall in Jordan will decline by 30%.
- Globally, millions will be displaced by scarcity of water.

Climate Change  
Mansfield University

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# What can you do?

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**Avoid single use plastics**

**Don't waste water**

**Eat locally produced, seasonal food** that hasn't been flown in from afar.

Eat **much less meat** (greenhouse gases from livestock are a major contributor to climate change.)

Eat much **more fruit, vegetables, beans, pulses, nuts & seeds.**

**Use public transport, walk or cycle** instead of a car.

**Stop flying** OR at least avoid long haul flights and stopovers on flights: 25% of airplane emissions come from landing and taking off.

**Use renewable energy & energy-efficient appliances.**

**Recycle** to save resources.



## What we eat affects the climate



28 billion animals in the world are raised for meat, eggs and milk.

**Animal agriculture is responsible for 14.5% of global greenhouse gas emissions.**

**Growing crops makes better use of land.**

Eating less meat and dairy and more locally produced vegetables and fruit cuts global emissions and reduces deforestation.





# The world's biggest killer: Air pollution

causes 7m premature deaths a year

PREVIEW

- 9 out of 10 people breathe air containing high levels of pollutants.
- Fine particles increase our risk of stroke, heart disease, lung cancer.
  - Will worsen as cities get bigger and there are more cars.

Source: World Health Organization

# Air pollution: this invisible poison particularly affects young people

Pollution shortens the lives of 7m people a year in the world. Harmful particles lodge themselves deep inside our bodies.

Road transport is the biggest source of pollution in cities, particularly old buses, lorries and diesel cars.

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Aircraft emissions of CO<sub>2</sub>  
and other greenhouse gases  
are 3.7% of all climate change  
caused by humans.

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Intergovernmental Panel on Climate Change





# 'What happens in the Arctic does not stay in the Arctic.'

Joyce Msuya,  
UN Environment

# PREVIEW

- Since 1979 Arctic sea ice has declined by 40%.
- At the current rate of CO2 emissions, Arctic summers will be ice-free by the 2030s.
- The melting of the Greenland ice cap and Arctic glaciers contribute to one third of sea level rise worldwide.

Source: UN Environment



**Arctic temperatures for the past 5 years  
(2014-18) have been the highest ever.**

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- Massive decline of sea ice & snow
- Extensive melting of Greenland ice sheet
- Arctic temperatures increasing at double the rate of the global temperature increase

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# Climate change causes hunger

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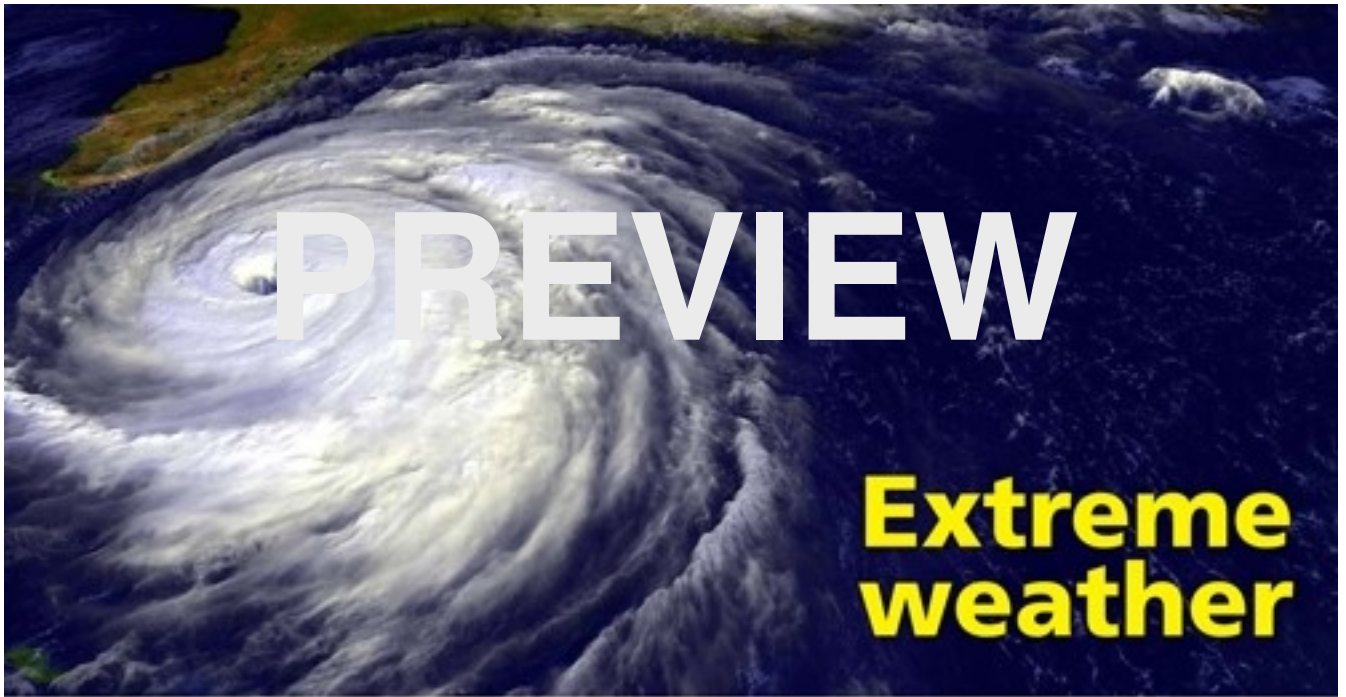
The number of climate-related disasters, (heatwaves, droughts, floods, storms) has doubled since the early 1990s.

Very hot days are becoming more frequent. Extreme heat is linked to lower crop yields.

Climate change increases the number of hungry people in the world.

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Source: FAO



**Climate change and global warming make extreme weather events more likely to happen. Hurricanes will be more devastating because their strength is related to the water temperature where they form.**



# Glaciers

Melting glaciers cause:

- world sea levels to rise
- habitat destruction

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Glaciers cover about 10% of Earth's surface. 99% of glacial ice is in polar regions which are warming up faster than anywhere else on the planet.



Thwaites Glacier, Antarctic, Photo: NASA

# Glaciers PREVIEW

Alpine glaciers have lost 25% of their surface area in the last 12 years. The rate of melting is accelerating because of climate change.

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Le Laboratoire de Glaciologie et Géotopographie  
de l'Environnement de Grenoble

Mer de Glace  
glacier,  
French Alps

## Great Barrier Reef

- A 2,000 km long coral reef supporting a rich variety of sea life.
- Has lost more than half its coral cover since 1985.
- Threats: climate change; declining water quality caused by run-offs from modern farming practices.

**'The Great Barrier Reef is in grave danger.** The twin perils brought by climate change – an increase in the temperature of the ocean and in its acidity – threaten its very existence.'

*Sir David Attenborough*

Satellite images: NASA

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# Oceans warming

Oceans are warming  
40% faster than  
estimated  
5 years ago.

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## Higher temperatures:

- destroy marine ecosystems - 20% of corals have died in the last 3 years
- threaten plankton, fish, mammals and seabirds
- raise sea levels and cause flooding
- make hurricanes more devastating

Source: *the Journal Science*, January 2019





# Plastic in the sea



# PREVIEW

Scientists have just discovered that:

Newcastle University research Nov 20

Animals from the deepest places have man-made fibres and plastic in their stomachs, including at the Earth's deepest point, Challenger Deep in the Pacific - nearly 11km down.

5 trillion plastic pieces, over 250,000 tons, float on the surface.

300m tonnes of plastic litter the oceans.

