

# Climate change – the current global situation

Timo Uustal

## Climate change

Keep it in the ground

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Friday 15 April 2016 16.33 BST

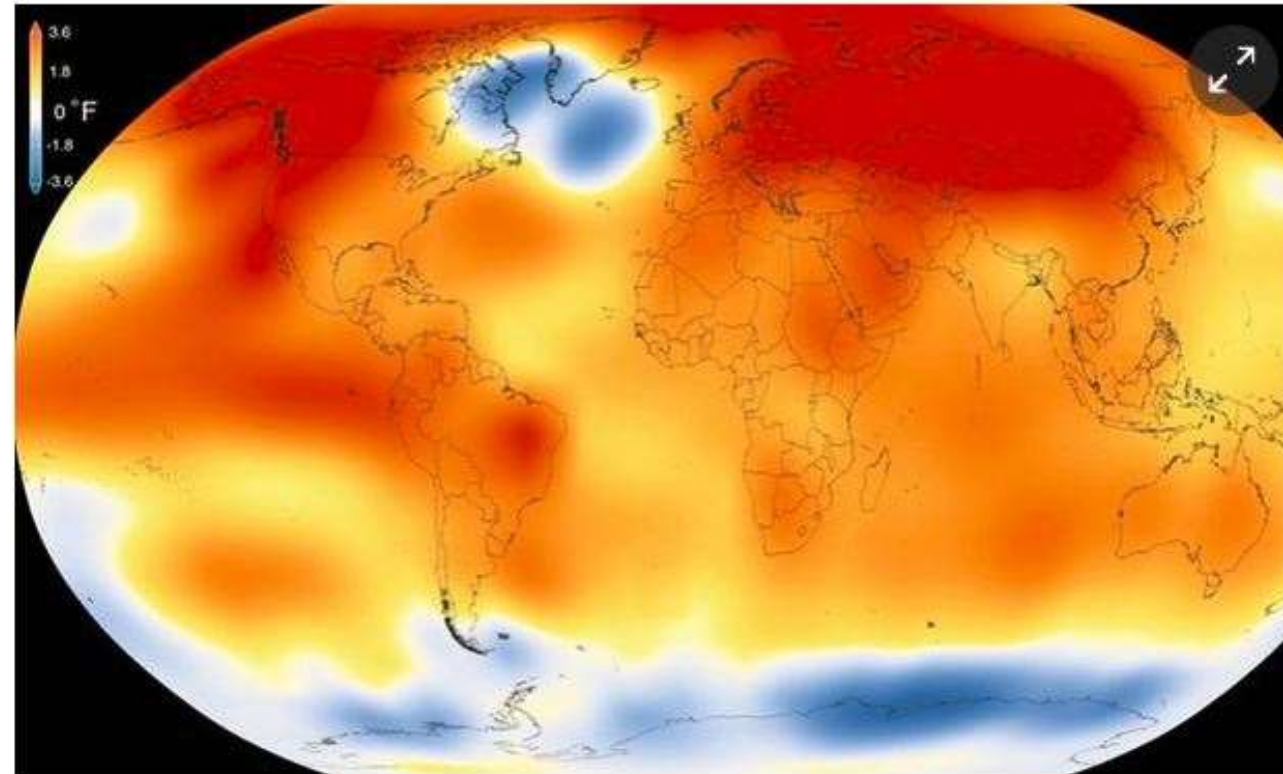
Comments

2,942

Save for later

# March temperature smashes 100-year global record

Average global temperature was 1.07C hotter - beating last month's previous record increase



An illustration shows that 2015 was the hottest year since 1880. Photograph: AFP/Getty Images

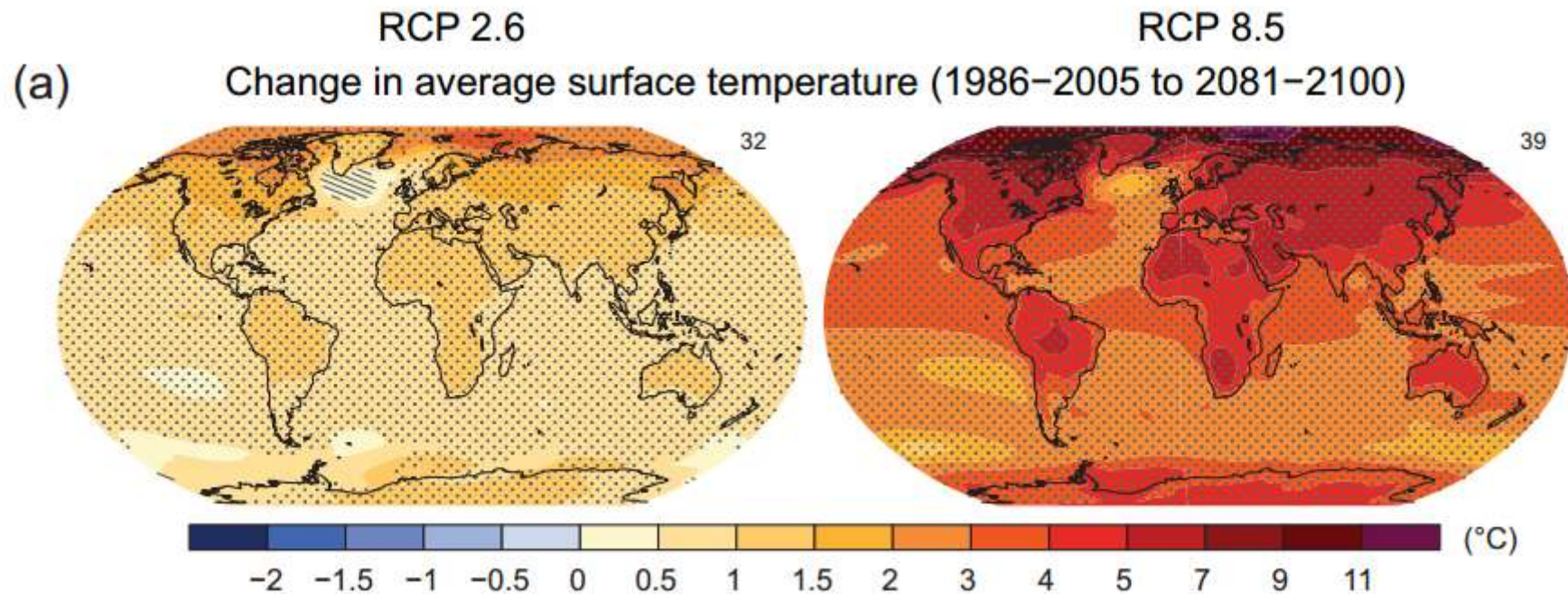
The global temperature in March has shattered a century-long record and by the greatest margin yet seen for any month.

# IPCC AR5

**Table SPM.2** | Projected change in global mean surface air temperature and global mean sea level rise for the mid- and late 21st century relative to the reference period of 1986–2005. {12.4; Table 12.2, Table 13.5}

		2046–2065		2081–2100	
	Scenario	Mean	<i>Likely range</i> <sup>c</sup>	Mean	<i>Likely range</i> <sup>c</sup>
Global Mean Surface Temperature Change (°C) <sup>a</sup>	RCP2.6	1.0	0.4 to 1.6	1.0	0.3 to 1.7
	RCP4.5	1.4	0.9 to 2.0	1.8	1.1 to 2.6
	RCP6.0	1.3	0.8 to 1.8	2.2	1.4 to 3.1
	RCP8.5	2.0	1.4 to 2.6	3.7	2.6 to 4.8
	Scenario	Mean	<i>Likely range</i> <sup>d</sup>	Mean	<i>Likely range</i> <sup>d</sup>
Global Mean Sea Level Rise (m) <sup>b</sup>	RCP2.6	0.24	0.17 to 0.32	0.40	0.26 to 0.55
	RCP4.5	0.26	0.19 to 0.33	0.47	0.32 to 0.63
	RCP6.0	0.25	0.18 to 0.32	0.48	0.33 to 0.63
	RCP8.5	0.30	0.22 to 0.38	0.63	0.45 to 0.82

# IPCC AR5





# Short answers

To those hard questions



# How much is the planet heating up?

1.7 degrees is actually a significant amount.





How much trouble  
are we in?

For future generations, big trouble.



A young man and woman are standing in a field of yellow flowers. The man is holding a skateboard. The woman is wearing sunglasses. The man is wearing a blue shirt and a backpack. The skateboard has a graphic design on it.

# Is there anything I can do?

Fly less, drive less, waste less.



A photograph of Barack Obama, President of the United States, shaking hands with another man in a dark suit. Obama is on the right, looking down at the handshake with a slight smile. The man on the left is partially visible, also in a suit. The background is blurred, showing what appears to be an outdoor setting with a white railing.

# What's the optimistic scenario?

Several things have to break our way.






Will reducing meat in  
my diet help the  
climate?

Yes, beef especially.



The background image shows a vast, arid landscape with a ground surface composed of numerous irregular, polygonal mud cracks. The cracks are deep and dark, contrasting with the light brown, parched soil. In the far distance, two small human figures are walking across the cracked terrain towards the horizon. The sky above is filled with heavy, grey clouds, suggesting an overcast or stormy day. A large green rectangular box with a diagonal line pattern is positioned on the left side of the image, containing the main text. A smaller orange rectangular box with a diagonal line pattern is located below the green box, containing a response to the question.

# What's the worst-case scenario?

There are many.

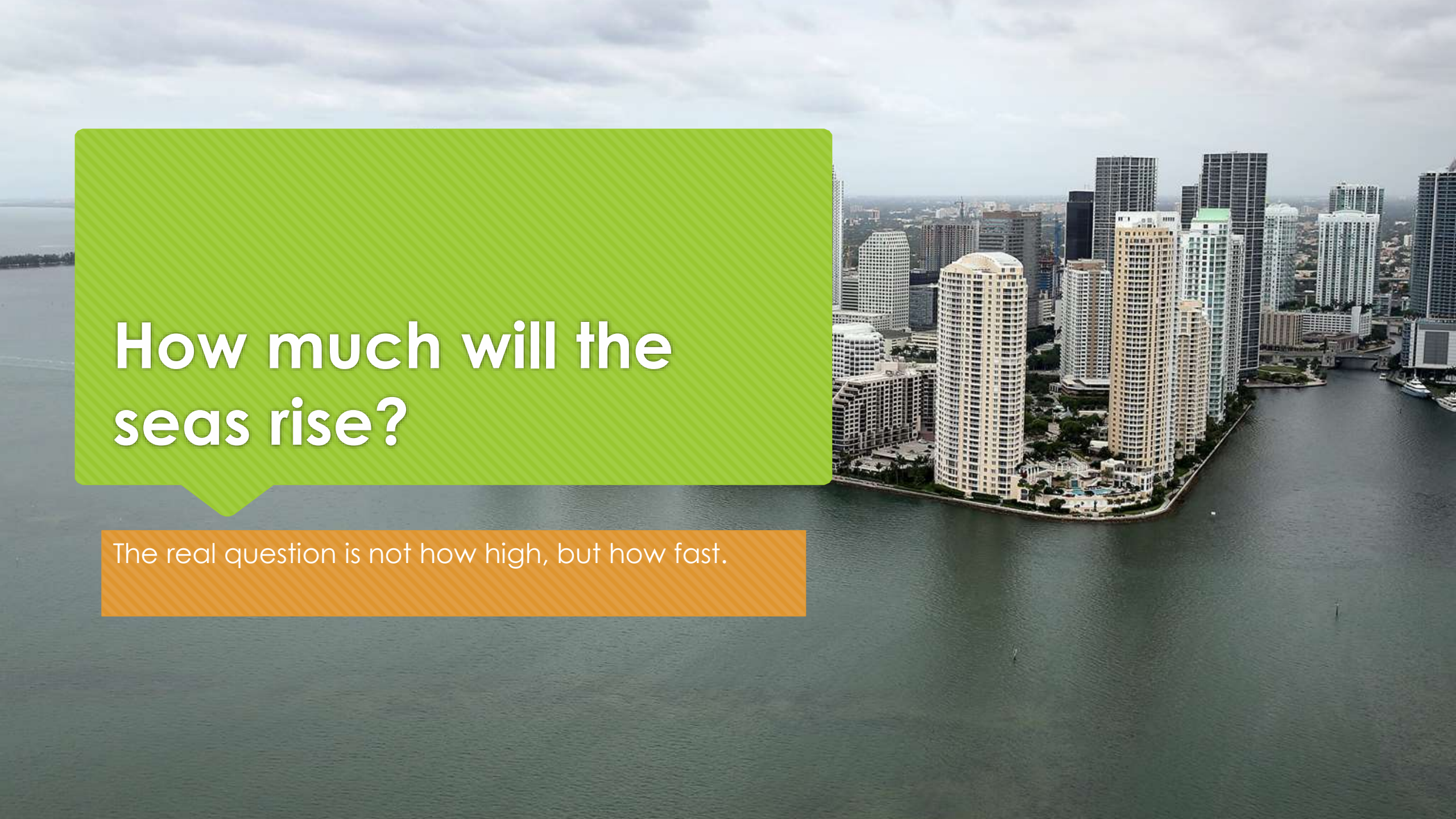




# Will a tech breakthrough help us?

Even Bill Gates says don't count on it,  
unless we commit the cash.



An aerial photograph of a coastal city, likely Miami, showing a dense cluster of high-rise apartment buildings and hotels along a waterfront. The water is a dark, calm grey-blue, and the sky is overcast with grey clouds. The city extends into the water, with a small peninsula in the foreground. The overall tone is somber and urgent, reflecting the theme of the text.

# How much will the seas rise?

The real question is not how high, but how fast.




# Are the predictions reliable?

They're not perfect, but they're grounded in solid science.

Computation time = 7.58 seconds

C:\>



The background of the entire slide is a close-up, slightly blurred image of numerous US dollar bills. The bills are fanned out, creating a sense of depth and abundance. The focus is on the texture and patterns of the currency, with the green and white colors of the bills being prominent.

# Why do people question climate change?

Hint: ideology.





# Is crazy weather tied to climate change?

In some cases, yes.





# Will anyone benefit from global warming?

In certain ways, yes.



# Is there any reason for hope?

If you share this with 50 friends, maybe.







# How does agriculture affect climate change?

It's a big contributor, but there are signs of progress.





# Will the seas rise evenly across the planet?

Think lumpy.





# Is it really all about carbon?

Not just fossil fuels...



**Will this disaster movie  
end with a kiss?**

Open for your comments...



***Positive proof of global warming.***



**18th  
Century**

**1900**

**1950**

**1970**

**1980**

**1990**

**2006**



Thank you for your attention!



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