

This is not a word-for-word transcript

Neil

Hello. This is 6 Minute English from BBC Learning English. I'm Neil.

Sam

And I'm Sam.

Neil

"No one is too small to make a difference". Do you know who said that, Sam?

Sam

Wasn't it climate change activist, Greta Thunberg?

Neil

That's right. She went on to say this in her message to world leaders: "I don't want you to be hopeful. I want you to act as if your house is on fire. Because it is."

Sam

Her speech reflected the feelings of many young people around the world who think that not enough action is being taken on climate change.

Neil

And they may be right, judging by the record-breaking temperatures that hit Canada and the north-west of the United States in July this year.

Sam

Yes, Greta Thunberg's plea to 'act like your house is on fire' became a reality for residents of the small town of Lytton, Canada which burned to the ground in a shocking **wildfire** – a fire that is burning strongly and out of control.

Neil

So, was the Lytton wildfire yet another climate change **wake-up call**? A **wake-up call** is the expression used to describe a shocking event that should make people realise that action is needed to change something.

Sam

Well, maybe not, according to some climatologists who, worryingly, say that what happened in Lytton should not even have been possible. So in this programme we'll be asking if scientists have dangerously misunderstood the realities of climate change.

Neil

But first it's time for my quiz question and it's about that extreme weather in Canada. It broke records when the temperature in Lytton hit an all-time high on 1st July - but just how hot did it get? Was it:

- a) 39 point 6 degrees?,
- b) 49 point 6 degrees? or
- c) 59 point 6 degrees Celsius?

Sam

All those temperature look really high, especially for snowy Canada. I'll say a) 39 point 6 degree C.

Neil

OK, Sam, we'll find out the answer later on. Seeing your hometown burn to the ground is bad enough, but perhaps even worst was the fact that the wildfires were so unexpected.

Sam

According to weather pattern modelling done by a team of Oxford University researchers, such extreme heat was impossible - in theory, at least.

Neil

The research team was led by climatologist, Geert Jan van Oldenborgh. Here he is in conversation with BBC World Service programme, Science in Action:

Roland Pease

This is a **wake-up call** beyond the wake up calls that we've had before.

Geert Jan van Oldenborgh

Yes, and it's a very big shock in the sense that we thought we knew how **heatwaves** react to global warming and within which boundaries they're increasing (of course they're increasing in temperature) but it's a **gradual** process we thought and then you get this thing and it's not gradual at all – it's a huge **jump**!

Sam

Professor Van Oldenborgh had been studying the impact of global warming on **heatwaves** - short periods of time when the weather is much hotter than usual.

Neil

Along with other climatologists, he thought that climate change was **gradual** – changing or happening slowly, over a long period of time.

Sam

But the Canadian heatwaves caused him to think again. Instead of being gradual the temperatures saw a **jump**, or a sudden increase, of five degrees. And it's this sudden jump that's got Professor Van Oldenborgh and his team worried.

Neil

By collecting data from all over the world climatologists try to predict changes in the pattern of global warming.

Sam

But, as Geert Jan van Oldenborgh told BBC World Service's, Science in Action, the heatwave in Lytton didn't fit these predictions at all:

Geert Jan van Oldenborgh

Everything looked like a nice regular gradual trend like we were used to up to last year and then you suddenly break all your records by four or five degrees, I mean, this is something that's no supposed to happen and it has really **shaken our confidence** in how well we understand the effect of climate change on heatwaves.

Neil

Despite all his research, Professor Van Oldenborgh is still unable to explain such extreme and sudden changes in the climate – and this, he says, has **shaken his confidence** - made him doubt something that he was certain was true.

Sam

And it's this lack of understanding worrying researchers because, as the story of the town of Lytton shows, the effects of climate change may be even worse than expected.

Neil

Maybe it's time we all took notice of Greta Thunberg's wake-up call to take action on climate change.

Sam

Especially if even cold, northern countries like Canada, or Britain for that matter, can experience such extreme changes. Speaking of which, Neil, what was the answer to your quiz question?

Neil

Ah yes, in my quiz question I asked you exactly how high the temperature reached in the Canadian town of Lytton. What did you say, Sam?

Sam

I thought it was a) 39 point 6 degrees Celsius. Was I right?

Neil

Well, you were close but in fact it got even hotter, actually reaching 49 point 6 degrees Celsius – the highest temperature ever recorded in Canada by at least 5 degrees!

Sam

Phew! That's hot. Well, we'd better recap the vocabulary from this programme because we might be hearing these words a lot more in the future! Let's start with a **wildfire** which is an out-of-control fire that is burning the countryside.

Neil

A **wake-up call** is an event which should make people realise that action needs to be taken to change a situation.

Sam

A **heatwave** is a period of days or weeks when the weather is much hotter than usual.

Neil

A **jump** is a sudden increase...

Sam

...whereas **gradual** means happening slowly, over a long time.

Neil

And finally, if something **shakes your confidence**, it makes you doubt something that you thought was true.

Sam

That's it for our look at one of the hottest years on record.

Neil

Bye for now!

Sam

Bye!

VOCABULARY

wildfire

a fire that is burning strongly and out of control in the countryside

wake-up call

shocking event which should make people realise that we need to take to change a situation

heatwave

short period of time, such as few weeks, when the weather is much hotter than usual

jump

a sudden increase

gradual

happening slowly over a long period of time

shake someone's confidence

make someone doubt something that they were certain was true