



1
00:00:00,860 --> 00:00:04,200
2014 was the hottest year on record.

2
00:00:04,220 --> 00:00:06,880
The finding was announced today in a new report

3
00:00:06,900 --> 00:00:10,700
from NASA's Goddard Institute for Space Studies in New York.

4
00:00:10,720 --> 00:00:14,520
Each year the institute produces a global temperature analysis

5
00:00:14,540 --> 00:00:17,850
using readings from weather stations around the world.

6
00:00:17,870 --> 00:00:20,800
The map, seen here, shows long-term changes

7
00:00:20,820 --> 00:00:23,950
in Earth's temperature compared to a 30-year baseline.

8
00:00:23,970 --> 00:00:26,900
Red, orange and yellow are warmer areas.

9
00:00:26,920 --> 00:00:28,360
Blue is colder.

10
00:00:28,380 --> 00:00:31,710
Since temperature records began in 1880,

11
00:00:31,730 --> 00:00:35,840
the global average has increased by 1.4 degrees Fahrenheit.

12
00:00:35,860 --> 00:00:39,740
and that might not seem very much but in terms of the climate,

13
00:00:39,760 --> 00:00:41,250

it's actually quite a big deal.

14

00:00:41,270 --> 00:00:45,290

Scientists expect global and regional fluctuations in temperature

15

00:00:45,310 --> 00:00:48,430

from year to year due to changing weather patterns.

16

00:00:48,450 --> 00:00:53,130

In 2014, the mid-western U.S. experienced a cold winter,

17

00:00:53,150 --> 00:00:56,560

but parts of western U.S. hit record-high temperatures.

18

00:00:56,580 --> 00:00:59,160

But when looking at decades worth of data,

19

00:00:59,180 --> 00:01:02,290

the ranking of 2014 as the hottest year

20

00:01:02,310 --> 00:01:06,380

reinforces the long-term trend of rising global temperatures.

21

00:01:06,400 --> 00:01:08,620

A trend driven by the increase of

22

00:01:08,640 --> 00:01:11,060

carbon dioxide levels in the atmosphere.

23

00:01:11,080 --> 00:01:13,360

Carbon dioxide levels are increasing because

24

00:01:13,380 --> 00:01:16,430

we're taking carbon out of the ground mainly as coal,

25

00:01:16,450 --> 00:01:19,130

oil or as natural gas and we're burning it.

26
00:01:19,150 --> 00:01:21,430
When you burn carbon you produce carbon dioxide,

27
00:01:21,450 --> 00:01:24,340
which contributes to the planet's greenhouse effect.

28
00:01:24,360 --> 00:01:26,500
And as we continue to increase that

29
00:01:26,520 --> 00:01:28,480
we're going to continue to see warming