

**IS THERE  
WEATHER  
ON MARS ?**

1  
00:00:01,440 --> 00:00:02,868  
Is There Weather on Mars?

2  
00:00:06,179 --> 00:00:07,610  
We Asked a NASA Technologist.

3  
00:00:07,610 --> 00:00:12,800  
Well the short answer is yes of course. The weather on Mars is in some sense very similar

4  
00:00:12,800 --> 00:00:18,240  
to the one we have here on Earth. We have seasons, for example, strong winds and clouds.

5  
00:00:18,240 --> 00:00:24,560  
But we can also find huge differences. The thermal variations are wider than on Earth.

6  
00:00:24,560 --> 00:00:32,000  
For example, where Perseverance is, in a single day we can go from -14 Fahrenheit

7  
00:00:32,000 --> 00:00:40,000  
to -120 Fahrenheit, so this is really extreme. Other interesting meteorological phenomena occurring on Mars

8  
00:00:40,000 --> 00:00:47,920  
are the local, regional or even global dust storms. To better understand these weather variations and

9  
00:00:47,920 --> 00:00:54,080  
the climate, Perseverance has an instrument that will focus on the study of the Martian atmosphere.

10  
00:00:54,080 --> 00:01:00,250  
This is the MEDA instrument. MEDA stands for Mars Environmental Dynamics Analyzer.

11  
00:01:00,250 --> 00:01:06,720

Curiosity and InSight have their own meteorological station\hand together with MEDA on Perseverance, we

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00:01:06,720 --> 00:01:10,534

will be having the first meteorological\h  
network on another planet.

13

00:01:10,534 --> 00:01:16,960

The three of\hthem working simultaneously will help us\h  
better understand the atmospheric dynamic.

14

00:01:16,960 --> 00:01:21,467

So is there weather on Mars? Yes and\h  
it is really really fascinating.