



TW@N

THIS WEEK @ NASA

1

00:00:00,260 --> 00:00:03,110

The cause of a Christmas Eve quake on Mars

...

2

00:00:03,110 --> 00:00:06,529

Super sources of a climate-warming greenhouse gas ...

3

00:00:06,529 --> 00:00:11,679

And images of Earth from a passing spacecraft ... a few of the stories to tell you about

4

00:00:11,679 --> 00:00:13,540

– This Week at NASA!

5

00:00:13,540 --> 00:00:21,980

A strong marsquake recorded by our InSight lander on Dec. 24, 2021, was caused by a massive

6

00:00:21,980 --> 00:00:28,289

meteoroid strike that excavated boulder-size chunks of ice from the Martian surface.

7

00:00:28,289 --> 00:00:34,070

Evidence of this is seen in before-and-after images of the impact site from our Mars Reconnaissance

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00:00:34,070 --> 00:00:35,320

Orbiter.

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00:00:35,320 --> 00:00:39,910

The EMIT mission on the International Space Station that is studying the effects of mineral

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00:00:39,910 --> 00:00:45,510

dust on our climate has also identified over 50 “super-emitter” sources of methane

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00:00:45,510 --> 00:00:46,980

on Earth.

12
00:00:46,980 --> 00:00:51,620
Methane is a potent greenhouse gas that can trap heat in our atmosphere.

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00:00:51,620 --> 00:00:56,550
Our Lucy spacecraft took this shot of Earth, on the right, and the Moon on the far left

14
00:00:56,550 --> 00:01:01,980
as the spacecraft approached Earth for a recent flyby and gravity assist maneuver.

15
00:01:01,980 --> 00:01:06,300
Lucy is on its way to visit Jupiter's Trojan asteroids.

16
00:01:06,300 --> 00:01:12,600
NASA participated in the 15th Wernher von Braun Symposium Oct. 26 – 28 in Huntsville,

17
00:01:12,600 --> 00:01:13,600
Alabama.

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00:01:13,600 --> 00:01:17,970
The annual event is an opportunity for space industry leaders and colleagues to convene,

19
00:01:17,970 --> 00:01:20,049
connect, and collaborate with each other.