



1
00:00:00,390 --> 00:00:06,660

NASA is set to launch a shoebox-sized satellite into space to study how Earth's atmosphere interacts with the S

2
00:00:06,680 --> 00:00:12,290

The CubeSat is named Dellingr after the mythological Norse god of the dawn.

3
00:00:12,310 --> 00:00:17,710

The spacecraft recently completed tests in the Magnetic Test Facility at NASA Goddard.

4
00:00:17,730 --> 00:00:24,120

The room encloses a 42-foot-diameter coil system that cancels out Earth's magnetic field.

5
00:00:24,140 --> 00:00:30,620

The entire building is made with nonmagnetic materials such as wood and aluminum.

6
00:00:30,640 --> 00:00:35,660

The facility is isolated from other buildings to avoid any other magnetic influence.

7
00:00:35,680 --> 00:00:42,970

This allowed scientists to evaluate the spacecraft's own magnetic field, which can affect its movement and mea

8
00:00:42,990 --> 00:00:50,080

They also tested Dellingr's magnetometers - key instruments for measuring the direction and strength of the m

9
00:00:50,100 --> 00:00:56,570

Dellingr will study the ionosphere - a layer of charged particles in Earth's upper atmosphere.

10
00:00:56,590 --> 00:01:02,720

Solar radiation interacts with the ionosphere, causing it to expand and contract.

11
00:01:02,740 --> 00:01:09,530

The movement of the ionosphere can drive space weather and affect satellite orbits.

12
00:01:09,550 --> 00:01:16,240

CubeSats are relatively inexpensive and provide scientists with quick and accurate data from space.

13
00:01:16,260 --> 00:01:21,760

Scientists have been able to fly constellations of low-cost missions and micro satellites

14

00:01:21,780 --> 00:01:26,910

for gathering simultaneous and global measurements.