



1
00:00:00,390 --> 00:00:05,180
My name is Jared Espley, I'm a Planetary
Scientist and I study Mars using data from

2
00:00:05,180 --> 00:00:10,780
The MAVEN Spacecraft.

3
00:00:10,780 --> 00:00:19,669
So the exciting thing about the MAVEN Mission
is, we're getting all this data back for

4
00:00:19,669 --> 00:00:24,631
the first time that is able to comprehensively
tell us, about how the upper atmosphere of

5
00:00:24,631 --> 00:00:25,631
Mars works.

6
00:00:25,631 --> 00:00:30,330
And that seems like a rather focused or even
esoteric science question but really in the

7
00:00:30,330 --> 00:00:34,329
big picture it relates to questions that are
of interest to everybody who is interested

8
00:00:34,329 --> 00:00:35,329
in exploring Mars.

9
00:00:35,329 --> 00:00:36,329
"Like where's the water?"

10
00:00:36,329 --> 00:00:39,949
'Cause with MAVEN, we are able to see trace
how much water has potentially being lost

11
00:00:39,949 --> 00:00:44,070
to space today, how much has been lost over
time and therefore, be able to answer questions

12

00:00:44,070 --> 00:00:45,940

about, "where the water could be today?"

13

00:00:45,940 --> 00:00:50,500

"Is the water all escaped into space or
is some of it buried in the sub-surface?"

14

00:00:50,500 --> 00:00:54,489

By addressing this question of how the Solar
Wind is blowing away the Martian atmosphere

15

00:00:54,489 --> 00:00:59,680

with MAVEN, we can also address big picture
questions in planetary science in general.