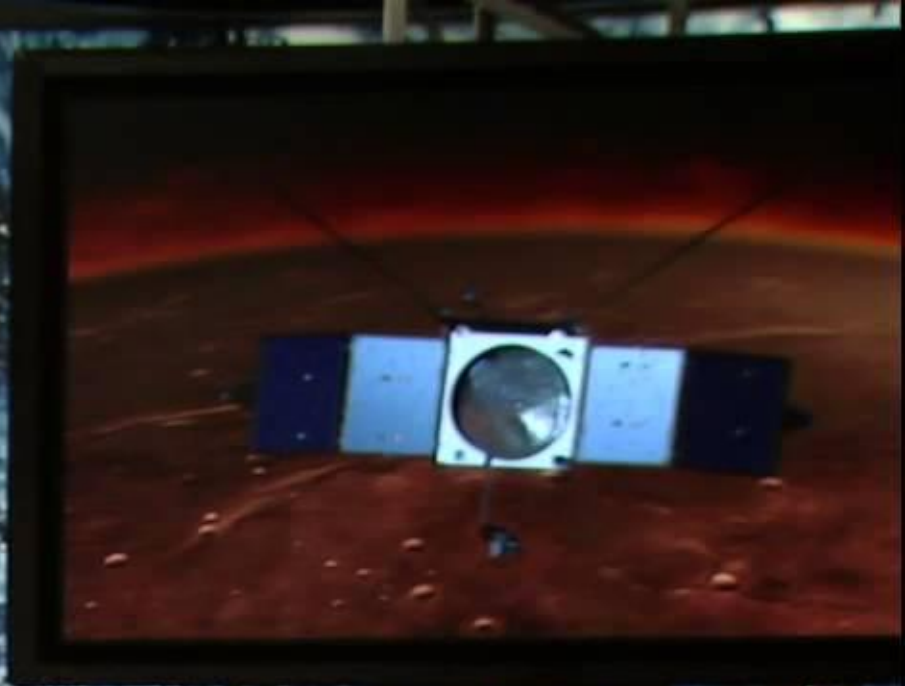




nasa.gov/MAVEN



1

00:00:00,010 --> 00:00:04,010

>>INTERVIEWER: Last November, NASA launched a new mission to Mars to investigate the mystery

2

00:00:04,030 --> 00:00:08,060

of how it became the red planet and how it may have looked in the past.

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00:00:08,080 --> 00:00:12,060

Now, that mission is about to arrive, and here joining us from NASA's Goddard

4

00:00:12,080 --> 00:00:16,100

Space Flight Center in Greenbelt, Maryland is Planetary Science

5

00:00:16,120 --> 00:00:20,130

Division Director Dr. Jim Green. Thank you for joining us, Dr. Green.

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00:00:20,150 --> 00:00:24,160

>>JIM: Thank you very much, Claire. >>INTERVIEWER: After nearly a year-long journey, MAVEN is finally

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00:00:24,180 --> 00:00:28,180

arriving at Mars. Can you tell us about the MAVEN mission entering Mars'

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00:00:28,200 --> 00:00:32,230

atmosphere? >>JIM: Well this is an incredibly exciting time, as you say

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00:00:32,250 --> 00:00:36,260

in November of last year, we had a perfect launch for

10

00:00:36,280 --> 00:00:40,290

MAVEN. The rocket was put on the exact trajectory

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00:00:40,310 --> 00:00:44,330

we needed. And now we're on Mars' doorstep.

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00:00:44,350 --> 00:00:48,350

And Sunday night, we'll skew it, we'll fire the rockets

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00:00:48,370 --> 00:00:52,380

After 33 minutes, we hope Mars' gravity will take

14

00:00:52,400 --> 00:00:56,420
over and put MAVEN into orbit.

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00:00:56,440 --> 00:01:00,440
>>INTERVIEWER: And what will MAVEN do as it orbits Mars? >>JIM: Well MAVEN is designed

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00:01:00,460 --> 00:01:04,450
to look at the interaction of the upper atmosphere and ionosphere with the solar wind.

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00:01:04,470 --> 00:01:08,490
We believe the solar wind has been very extensive over

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00:01:08,510 --> 00:01:12,510
many billions of years and has perhaps stripped away

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00:01:12,530 --> 00:01:16,570
what we believe is the oceans and atmospheres, and made it

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00:01:16,590 --> 00:01:20,680
much more dry and arid like it is today.

21

00:01:20,700 --> 00:01:24,710
>>INTERVIEWER: What else is NASA doing to better understand Mars, and what are

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00:01:24,730 --> 00:01:28,750
our plans for the future? >>JIM: Well in addition to MAVEN,

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00:01:28,770 --> 00:01:32,810
we're planning two other missions coming up. One is a

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00:01:32,830 --> 00:01:36,850
lander that will look at how active seismicly

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00:01:36,870 --> 00:01:40,930
Mars is. And the next one is in

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00:01:40,950 --> 00:01:44,990

2020. It's a rover similar to Curiosity.

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00:01:45,010 --> 00:01:49,000

>>INTERVIEWER: How does studying the red planet's evolution help us understand

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00:01:49,020 --> 00:01:53,040

the formation of other planets, including Earth? >>JIM: Well,

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00:01:53,060 --> 00:01:57,110

way in the past, Mars was much more Earth-like. And some sort

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00:01:57,130 --> 00:02:01,150

of climate change occurred, where it lost its water,

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00:02:01,170 --> 00:02:05,230

lost its atmosphere. And we want to understand those processes, because

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00:02:05,250 --> 00:02:09,240

what happened on Mars could happen here on Earth. And so

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00:02:09,260 --> 00:02:13,270

the study of terrestrial planets and their evolution is incredibly important

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00:02:13,290 --> 00:02:17,310

for us. >>INTERVIEWER: Where can we learn more?

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00:02:17,330 --> 00:02:21,320

>>JIM: To learn more, go to [NASA.gov/MAVEN](https://www.nasa.gov/MAVEN).

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00:02:21,340 --> 00:02:25,350

>>INTERVIEWER: Great, Dr. Green, thank you for joining us.

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00:02:25,370 --> 00:02:29,380

>>JIM: My pleasure, thank you Claire.