



1

00:00:00,770 --> 00:00:04,830

Amy Shira Teitel here talking about The Martian and also just what The Martian highlights

2

00:00:04,830 --> 00:00:06,660

about what we really know about Mars.

3

00:00:06,660 --> 00:00:11,270

We've been exploring Mars for more than 50 years and the planet's changed dramatically

4

00:00:11,270 --> 00:00:13,180

in that time from our perspective.

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00:00:13,180 --> 00:00:18,740

When we first saw Mars in 1965 it looked like the Moon but less interesting as we sent later

6

00:00:18,740 --> 00:00:22,580

spacecraft with better cameras we saw more details about the surface and Mars became

7

00:00:22,580 --> 00:00:24,789

less like the Moon and more of an alien planet.

8

00:00:24,789 --> 00:00:28,550

Since then we've sent landers, 2 geologist in the form of Spirit and Opportunity and

9

00:00:28,550 --> 00:00:34,020

a Chemist in the form of the MSL Curiosity Rover but a lot has changed every single time

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00:00:34,020 --> 00:00:38,070

we've explored Mars, and as Jim Green points out things change in a matter of years.

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00:00:38,070 --> 00:00:43,560

We now know from Curiosity so much more about

Mars, for instance there's more humidity

12

00:00:43,560 --> 00:00:47,899

in the atmosphere than we ever figured we actually could pull the moisture out of the

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00:00:47,899 --> 00:00:48,899

atmosphere.

14

00:00:48,899 --> 00:00:53,950

There's more nitrates in the soil than we ever imagined, that's important as a fertilizer

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00:00:53,950 --> 00:00:58,670

everything that we're learning now actually makes it easier to live and work and grow

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00:00:58,670 --> 00:01:02,990

food on Mars then when Andy wrote the book and that's just only been a few years ago.

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00:01:02,990 --> 00:01:07,719

with the upcoming InSight Mission and the Mars 20/20 Rover Mission NASA is looking forward