



1
00:00:00,000 --> 00:00:04,000
Silent.

2
00:00:04,000 --> 00:00:09,000
Marc Rayman: This is dwarf planet Ceres, a mysterious world of rock and ice.

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00:00:09,000 --> 00:00:12,000
How can you not be mesmerized by those glowing spots?

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00:00:12,000 --> 00:00:17,000
We'll see those again in a moment along with some other amazing sights on this fascinating, alien world

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00:00:17,000 --> 00:00:21,000
revealed by the Dawn spacecraft now in orbit there.

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00:00:21,000 --> 00:00:24,000
And get your 3-D glasses ready!

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00:00:24,000 --> 00:00:29,000
Here we're taking a little tour around a 60-mile diameter crater named Occator,

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00:00:29,000 --> 00:00:33,000
a Roman agricultural deity.

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00:00:33,000 --> 00:00:38,000
It's two miles deep, and you can see these intriguing bright regions.

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00:00:38,000 --> 00:00:42,000
They reflect a great more sunlight than the rest of the surface material,

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00:00:42,000 --> 00:00:49,000
but scientists haven't yet determined what it is about their composition or structure that's responsible.

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00:00:49,000 --> 00:00:51,000
There are a number of different ideas about what they are,

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00:00:51,000 --> 00:00:57,000

but to discover their real nature we need to get more data from lower altitudes.

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00:00:57,000 --> 00:01:00,000

Eventually, however, as we learn more about them

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00:01:00,000 --> 00:01:06,000

they may provide insights into the geology of this complex dwarf planet.

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This mountain is among the tallest features on Ceres,

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00:01:09,000 --> 00:01:15,000

a cone that juts 4 miles high from an otherwise unremarkable area.

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00:01:15,000 --> 00:01:19,000

It isn't in a crater or even obviously associated with one.

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00:01:19,000 --> 00:01:21,000

So what forces shaped it?

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00:01:21,000 --> 00:01:25,000

And why does it have this varying appearance:

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00:01:25,000 --> 00:01:27,000

dark on one side

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00:01:27,000 --> 00:01:33,000

and now we're coming around to the other side and we can see these bright streaks running down one side.

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00:01:33,000 --> 00:01:36,000

What does this structure tell us about how this world works?

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00:01:36,000 --> 00:01:41,000

This is another of the captivating mysteries about Ceres.

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00:01:41,000 --> 00:01:47,000

Now put on your 3-D glasses and have another look at the first dwarf planet ever discovered.

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Dawn's going to be getting still better views as it orbits closer and closer

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and uses its camera and other sophisticated sensors to reveal the secrets