



1

00:00:00,000 --> 00:00:05,305

(music throughout) Venus ... a lost frontier...

2

00:00:05,305 --> 00:00:12,445

Humanity hasn't visited the atmosphere of Earth's sister planet in over 40 years.

3

00:00:12,445 --> 00:00:18,084

DAVINCI is ready to take us back to Venus.

4

00:00:18,084 --> 00:00:24,457

Its massive atmosphere holds the clues to how our neighboring planet went from an ocean world

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00:00:24,457 --> 00:00:28,628

to the runaway greenhouse that it is today.

6

00:00:28,628 --> 00:00:33,466

DAVINCI carries a descent probe designed to study Venus' atmosphere from within and

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00:00:33,466 --> 00:00:36,836

from top to bottom, as well as a descent camera

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00:00:36,836 --> 00:00:42,308

that will capture images of the enigmatic mountains of Alpha Regio.

9

00:00:42,308 --> 00:00:51,818

In this massive atmosphere is a chemical laboratory just waiting to be discovered...

10

00:00:51,818 --> 00:01:03,830

The spherical probe protects a suite of state-of-the-art instruments from the extreme temperatures, high pressure

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00:01:03,830 --> 00:01:08,968

The probe will sniff the atmosphere throughout its descent, and the analytical instruments will

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00:01:08,968 --> 00:01:14,841

work together to definitively measure the composition of Venus' atmosphere.

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00:01:14,841 --> 00:01:18,211

The camera peers down through a small viewing port,

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00:01:18,211 --> 00:01:25,151

and once the probe passes below the cloud deck, it will start to collect a series of three-dimensional views

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00:01:25,151 --> 00:01:29,022

that will also help us understand whether the rocks of Alpha Regio

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00:01:29,022 --> 00:01:33,026

reveal a story of an ancient continent shaped by water.

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00:01:33,026 --> 00:01:36,963

The DAVINCI probe will take the first ever close-up images

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00:01:36,963 --> 00:01:41,367

of rugged mountains on Venus that may preserve an earlier time.

19

00:01:41,367 --> 00:01:45,805

These discoveries will be woven together to help the science community

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00:01:45,805 --> 00:01:48,808

answer big questions about Venus' past oceans,

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00:01:48,808 --> 00:01:51,778

the possibility of ongoing volcanic activity,

22

00:01:51,778 --> 00:01:54,180

and why Venus is so different from Earth...

23

00:01:54,180 --> 00:02:02,589

This incredible scientific data will be sent back to Earth by communication with the DAVINCI relay spacecraft a

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00:02:02,589 --> 00:02:07,327

And the science community will interpret these results for years to come,

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00:02:07,327 --> 00:02:11,364

to understand better how habitability evolved on Venus,

