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00:00:00,000 --> 00:00:05,105

(music throughout) How does planetary habitability evolve over time?

2

00:00:05,105 --> 00:00:08,341

Our mysterious sister planet Venus may have once had oceans of water.

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00:00:08,341 --> 00:00:11,077

Yet the Venus of today presents a different "face"

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00:00:11,077 --> 00:00:14,914

with an incomparably hot and inhospitable environment.

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00:00:14,981 --> 00:00:18,818

Lurking in its massive atmosphere are the clues to how a planet

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went from an oceanic state to the inhospitable state of today.

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And within that atmosphere, particularly beneath the clouds,

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is a chemical laboratory awaiting discovery.

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Connections to oceans, perhaps to volcanoes that erupted more recently,

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or even to the history of the last billion years of a planet that started life like Earth.

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00:00:41,674 --> 00:00:45,945

And those volcanoes and those rock scapes are hidden from our views –

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00:00:45,945 --> 00:00:51,184

and yet are waiting for us to return as we put Venus into its context.

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00:00:51,451 --> 00:00:57,023

Understanding Venus' extraordinary chemistry is the first step to deciphering how the