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Curiosity adds new twist to Mars methane mystery

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NASA's Curiosity rover made the most sensitive measurements ever to search for methane gas on Mars, but could not smell it.



However, rover scientists believe the gas is there and say they will keep looking for it.

On Earth most atmospheric methane comes from living sources, although it can also be made by non-biological processes. Methane on Mars might therefore be a sign of life deep below the

planet's surface.

Hints of the gas have been swirling since 2003, when ground-based telescopes and a European orbiter detected its signatures in the Martian atmosphere. A 2009 study done with telescopes in Hawaii claimed to see localised plumes of methane, suggesting pockets of life may thrive in three spots near the planet's equator. That find has since proven controversial.

Using its Sample Analysis at Mars (SAM) instrument suite, the Curiosity rover has conducted the first search for methane from within Mars's atmosphere. The rover used a laser spectrometer to sniff samples of air and look for the chemical signatures of methane.

After four attempts run on two samples, the tests came back essentially empty, or at least with such tiny traces that nothing is definitive.

"At this point we don't have a positive detection of methane on Mars. But that could change," New Scientist quoted Sushil Atreya, a co-investigator for the SAM instrument, as saying during a teleconference Friday.

Atreya said it is possible more robust levels of methane existed on Mars previously but were rapidly destroyed by other gases, such as chlorine, or by the planet's powerful dust storms.

The rover team is also hesitant to name a possible source for a gas they didn't find.

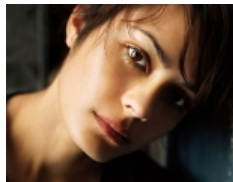
"Everything is open at this point. Since we do not have positive detection, we're not in a position to say what the source of methane would be," Atreya said.

"Stay tuned. The story of methane has just begun," he added.

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