



Platinum Sponsors

Gold Sponsors

Indiatimes | The Times of India | The Economic Times | More

Log In | Join | Like 965k Follow

THE ECONOMIC TIMES

ET Cetera

Home | News | Markets | IPO | Personal Finance | Mutual Funds | Tech | Jobs | Opinion | Features | Blogs | Slideshows | ET NOW | ET Speed

Top News | News By Industry | News By Company | Economy | Politics and Nation | International Business | Emerging Businesses | PSU Press Releases | NRI

Auto | Banking/Finance | Cons. Products | Energy | Ind'l Goods/Svs | Healthcare/Biotech | Jobs | Services | Media/Entertainment | ET Cetera | Telecom | Transportation | Education

You are here: ET Home > News > News By Industry > ET Cetera



Hi there,
Login with your Facebook ID to see what your friends are reading on Times of India and Economic Times.

Login with Facebook

SPOTLIGHT

Lessons from Dhoni's Leadership Style



4 Experts dissect MS Dhoni's leadership style and lessons it holds for corporate CEOs

For champions, the big day is like every day, says Harsha Bhogle. Great captains know that if you fear losing, you will be agitated, which invites losing. We never know what's going on inside Dhoni's head. If he is stressed, he never lets it show.

- Mahendra Singh Dhoni's leadership style offers invaluable lessons for managers
- Dhoni's non-cricketing business interests not yet forgiven



Mars had a much thicker atmosphere than today

By PTI | 19 Jul, 2013, 03.09PM IST

1 comments | Post a Comment

Recommend 0 0 0 Share Share More

READ MORE ON » NASA | Mars | curiosity rover | Curiosity | atmosphere

WASHINGTON: The first really high-precision measurements of the composition of Mars' atmosphere suggest that the Red planet's atmosphere was much thicker than it is today, researchers, including an Indian origin scientist, say.

New findings from NASA's Curiosity rover provide clues to how Mars lost its original atmosphere, which scientists believe was much thicker than the one left today.

"The beauty of these measurements lies in the fact that these are the first really high-precision measurements of the composition of Mars' atmosphere," said Sushil Atreya, professor of atmospheric, oceanic and space sciences at the University of Michigan.

Atreya is co-author of two related papers published in the journal Science, and co-investigator on Curiosity's Sample Analysis at Mars (SAM) suite of instruments, considered the rover's cornerstone lab.

SAM measured the abundances of different gases and isotopes in samples of Martian air, according to NASA. Isotopes are variations of the same chemical element that contain different numbers of neutrons, such as the most common carbon isotope, carbon-12, and a heavier stable isotope, carbon-13, which contains an additional neutron.



The first really high-precision measurements of the composition of Mars' atmosphere suggest that the Red planet's atmosphere was much thicker than it is today.

ET SPECIAL:
[Checkout Luxury Home Trends](#)

Most Read Most Shared Most Commented

- Narendra Modi led rescue efforts in Uttarakha...
- Ford EcoSport SUV launched at a starting pric...
- Know the new rules of filing tax returns & ho...
- How shell companies turn black money of India...
- India and the \$20 trillion innovation opportu...

More »

News in Pics

2/20

Detroit becomes largest US city to file for bankruptcy



Most Watched Videos



One of the best times to buy equities: Jhunjhunwala



One of the best times to buy equities: J...



Nissan launches Datsun Go car, prices it...



Markets tomorrow: Trading cues by the ex...

» MORE FROM VIDEOS

Slide Shows

Torrential rain and floods wreak havoc in Uttarakhand Flashfloods in the Ganga and its tributaries triggered by incessant rains for over 48 hours le...



SAM analysed the ratios of heavier to lighter isotopes of carbon and oxygen in the carbon dioxide that makes up most of Mars' atmosphere today.

Measurements showed that heavy isotopes of carbon and oxygen were more abundant in today's thin atmosphere compared with the proportions in the raw material that formed the planet (which scientists can deduce from proportions in the Sun and other parts of the solar system).

This provides not only supportive evidence for the loss of much of Mars' original atmosphere, but also gives clues to how the loss occurred. It suggests that the planet's atmosphere escaped from the top, rather than due to the lower atmosphere interacting with the ground, NASA's said.

"The isotope data are unambiguous and robust, having been independently confirmed by the quadrupole mass spectrometer and the tunable laser spectrometer, two of the SAM suite instruments," Atreya said.

"These data are clear evidence of a substantially more massive atmosphere, hence a warmer, wetter Mars in the past than the cold, arid planet we find today," said Atreya.

Recommend

Send

Sign Up to see what your friends recommend.

READ MORE ON » NASA | Mars | curiosity rover | Curiosity | atmosphere

PREVIOUS STORY

India joins UN in observing International Mandela Day

NEXT STORY

Six secrets of highly efficient people

More from The Economic Times

- Army to get Rudra choppers, armed with missiles and rockets in August 09 Jul 2013
- Narendra Modi's damage-control: In our culture, all forms of life are... 12 Jul 2013
- Why an assessment of AirAsia chief Tony Fernandes' sports failures is... 07 Jul 2013
- Narendra Modi has PM material: PA Sangma 12 Jul 2013

More from the web

- Cornell vs. Cornell: Turns out shale gas emissions really are lower than... Exxon Mobil
- More Employees "Going Rogue" On IT Enterprise Social Network Blog
- Why JP Morgan Is Hiring Veterans in Massive Numbers NYSE
- 10 Cars That Retain Their Value When You Sell in Five Years TheStreet

Recommended by

Follow Economic Times ET Cetera Section, For The Latest News!

Like 93

Have something to say? Post your comment

Comments are moderated and will be allowed if they are about the topic and not abusive.