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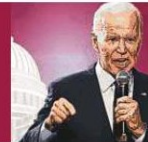
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UAE, US Mars missions tie up for data analysis

MOVE PAVES WAY FOR GREATER SCIENTIFIC COLLABORATION

DUBAI

Gulf News Report

The Emirates Mars Mission has finalised a science data analysis collaboration initiative with Nasa's MAVEN Mars Mission, which will pave the way towards greater scientific collaboration and data exchange between the two missions.

Yesterday, His Highness Shaikh Mohammad Bin Rashid Al Maktoum, Vice-President and Prime Minister of the UAE and Ruler of Dubai took to Twitter to express his happiness about the initiative.

The partnership enables the sharing and collaborative analysis of data and observations made by the Emirates Mars Mission's (EMM) Hope Probe and Nasa's MAVEN (Mars Atmosphere and Volatile Evolution) project and will enhance scientific returns from both spacecraft, which are currently orbiting Mars and observing the Red Planet's atmosphere. The arrangement is expected to add significant value to both EMM and MAVEN and the global scientific communities analysing the data the missions are collecting.

International collaborations

"Since the inception of EMM, the project has been defined by strong international collaborations and partnerships. The opportunity to work alongside other Mars missions and derive greater insights by sharing



■ Since the inception of the Emirates Mars Mission, the project has been defined by strong International collaborations and partnerships.

our observations and working together to fit together the pieces of the puzzle is one we are delighted to take. The complementarity of EMM and MAVEN means we can truly gain a bigger picture together." said Omran Sharaf, EMM Project Director.

MAVEN completed its Mars orbit insertion in 2014. Its mission is to investigate the upper atmosphere and ionosphere of Mars, offering an insight into how the planet's climate has changed over time.

"MAVEN and EMM are each exploring different aspects of the Martian atmosphere and upper-atmosphere system. Combined, we will have a much better understanding of

the coupling between the two and the influence of the lower atmosphere on escape to space of gas from the upper atmosphere", said Shannon Curry, Research Scientist in planetary sciences at the University of California, Berkeley and MAVEN Principal Investigator.

Holistic view

Hope Probe, which entered Mars orbit on February 9, 2021, is studying the relationship between the upper layer and lower regions of the Martian atmosphere, giving the international science community full access to a holistic view of the planet's atmosphere at different times of the day, through different seasons.