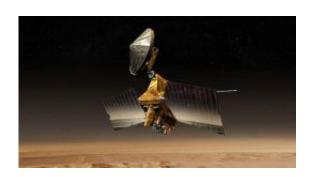


## Mars Reconnaissance Orbiter: Preventive Care Continues; Science on Hold

September 4 2009



Artist concept of Mars Reconnaissance Orbiter. Image credit: NASA/JPL

During analysis of four safe-mode events this year, engineers for NASA's Mars Reconnaissance Orbiter project have identified a vulnerability to the effects of subsequent events.

They are currently developing added protection to eliminate this <u>vulnerability</u> while they continue analysis of the string of incidents this year in which the <u>spacecraft</u> has spontaneously rebooted its computer or switched to a backup computer.

The team is keeping the Mars Reconnaissance Orbiter in a precautionary "safe" mode, with healthy power, temperatures and communications, while continuing analysis and precautions subsequent to the latest rebooting, on Aug. 26. Science observations will likely not resume for several weeks while this preventive care is the mission's priority.



The analysis identified one possible but unlikely scenario jeopardizing the spacecraft. This scenario would require two computer resets, each worse than any so far, occurring within several minutes of each other in a certain pattern.

The Mars Reconnaissance Orbiter, at Mars since 2006, has met the mission's science goals and returned more data than all other Mars missions combined. It completed its primary science phase of operations in November 2008 but remains an important contributor to science and to future landed missions. Continuing science observations are planned when the spacecraft is brought out of its current precautionary mode.

Provided by JPL/NASA (news : web)

Citation: Mars Reconnaissance Orbiter: Preventive Care Continues; Science on Hold (2009, September 4) retrieved 26 April 2024 from <a href="https://phys.org/news/2009-09-mars-reconnaissance-orbiter-science.html">https://phys.org/news/2009-09-mars-reconnaissance-orbiter-science.html</a>

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