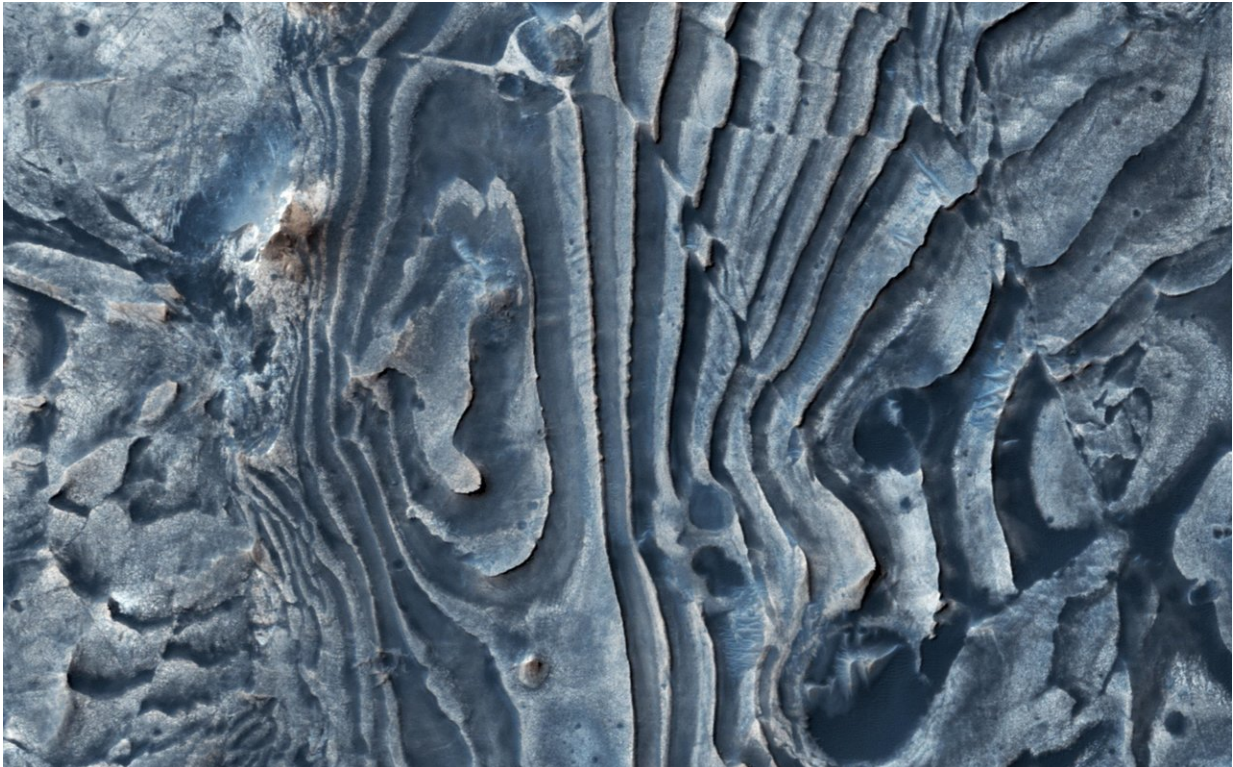


Image: The fault in our Mars

December 14 2017



Credit: NASA/JPL-Caltech/Univ. of Arizona

This image from NASA's Mars Reconnaissance Orbiter (MRO) of northern Meridiani Planum shows faults that have disrupted layered deposits. Some of the faults produced a clean break along the layers, displacing and offsetting individual beds (yellow arrow).

Interestingly, the layers continue across the [fault](#) and appear stretched

out (green arrow). These observations suggest that some of the faulting occurred while the layered deposits were still soft and could undergo deformation, whereas other faults formed later when the layers must have been solidified and produced a clean break.

The map is projected here at a scale of 50 centimeters (19.7 inches) per pixel. [The original image scale is 54.6 centimeters (21.5 inches) per [pixel](#) (with 2 x 2 binning); objects on the order of 164 centimeters (64.6 inches) across are resolved.] North is up.

Provided by NASA

Citation: Image: The fault in our Mars (2017, December 14) retrieved 20 April 2024 from <https://phys.org/news/2017-12-image-fault-mars.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.