



## A Window into the Past

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The layered sedimentary deposits inside the giant canyons of Mars have puzzled scientists for decades. These light-toned deposits have fine, horizontal laminations that are unlike the rugged rim rock of the Valles Marineris. Various ideas for the origin of the layered sediments have suggested lake deposits, wind-blown dust and sand, or volcanic materials that erupted after the canyon was formed, and possibly filled with water.

