Impact craters expose the subsurface materials on the steep slopes of Mars. However, these slopes often experience rockfalls and debris avalanches that keep the surface clean of dust, revealing a variety of hues, like in this enhanced-color image from NASA’s Mars Reconnaissance Orbiter, representing different rock types. The bright reddish material at the top of the crater rim is from a coating of the Martian dust.

The long streamers of material are from downslope movements. Also revealed in this slope are a variety of bedrock textures, with a mix of layered and jumbled deposits. This sample is typical of the Martian highlands, with lava flows and water-lain materials depositing layers, then broken up and jumbled by many impact events.

Provided by NASA

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