

Mars: Wayward Dust Devil Caught in the Act

March 26 2010



Credit: NASA/JPL

(PhysOrg.com) -- The HiRISE camera photographed a dust devil roaming the Martian plains far from the normal occurrence of such weather phenomena.

Sometimes the University of Arizona's HiRISE camera finds something unexpected while orbiting the [Red Planet](#).

This image was targeted to study knobs in Mars' northern plains, just north of Scandia Crater. The knobs are clearly imaged, but what surprised scientists was a dust devil visible in the south-central part of the image (left margin).



Credit: NASA/JPL

As on Earth, dust devils form when ground heated by sunlight warms the air above it. The hot air rises, forming an updraft accompanied by vortical motions. Because warm ground is a requirement, dust devils on [Mars](https://phys.org/news/2010-03-mars-wayward-devil-caught.html) generally form in late spring to summer, especially at high latitudes.

This image was taken in early spring (2010), at a latitude of 61 degrees North. No dust devil has been seen this far from the equator at such an early season before.

Provided by University of Arizona

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