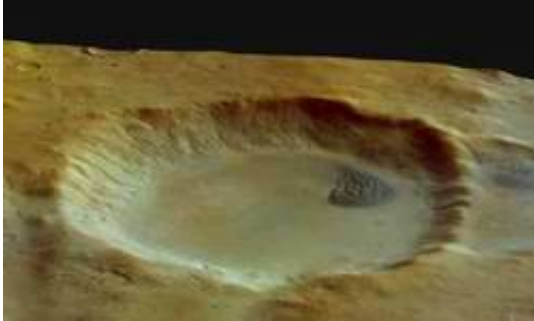


ESA Releases Mars Crater Dunes Images

August 24 2004

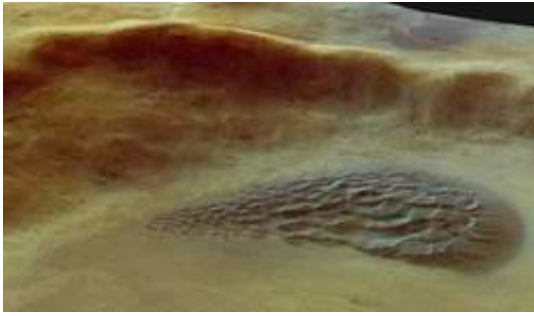


These images, taken by the High Resolution Stereo Camera (HRSC) on board [ESA's Mars Express](#) spacecraft, show a Martian crater with a dune field on its floor.

The images were taken during orbit 427 in May 2004, and show the crater with a dune field located in the north-western part of the Argyre Planitia crater basin.

The images are centred at Mars longitude 303° East and latitude 43° South. The image resolution is approximately 16.2 metres per pixel.

The crater is about 45 kilometres wide and 2 kilometres deep. In the north-eastern part of this crater, the complex dune field is 7 kilometres wide by 12 kilometres long.



Close-up of the dune field

In arid zones on Earth, these features are called ‘barchanes’, which are dunes having an asymmetrical profile, with a gentle slope on the wind-facing side and a steep slope on the lee-side.

The dune field shown here suggests an easterly wind direction with its steeper western part. The composition of the dune material is not certain, but the dark sands could be of basaltic origin.

The colour image has been created from the HRSC’s nadir (vertical view) and three colour channels. The 3D anaglyph image has been created using the nadir and stereo channels.

The perspective views have been calculated from the digital terrain model derived from the stereo channels.

Source: ESA

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