

Water on Mars PICTURED: ESA shares incredible IMAGES of Martian ice crater

21/12/2018



The European Space Agency has shared an incredible composite image showing a 50-mile wide crater on Mars that is filled with water ice all year long.

Budding future colonists hoping for a white Christmas on Mars will be somewhat disappointed as the ESA has confirmed that sitting in the Korolev crater is, in fact, a thick block of water ice, not snow. The enormous, 82-kilometer-wide, 2-kilometer-deep *"ice trap"* could still be good for ice skating though.

@esa A beautiful <u>#winter</u> wonderland... on <u>#Mars</u>! This ice-filled crater was imaged by our Mars Express spacecraft. Korolev crater is 82 kilometres across and found in the northern lowlands of Mars. More images: <u>http://www.</u> esa.int/Our_Activities/Space_Science/Mars_Express...

Even better, the 2,200 cubic kilometers of water ice – same as the volume of Canada's Great Bear Lake – could be important for the survival of future colonists, and may even enable them to return back home, as water could be split into hydrogen and oxygen for rocket fuel.

@esa For those of you asking - yes it is water ice. Mars Express first detected water on <u>#Mars</u> in 2004, see our release at the time <u>https://www.</u>

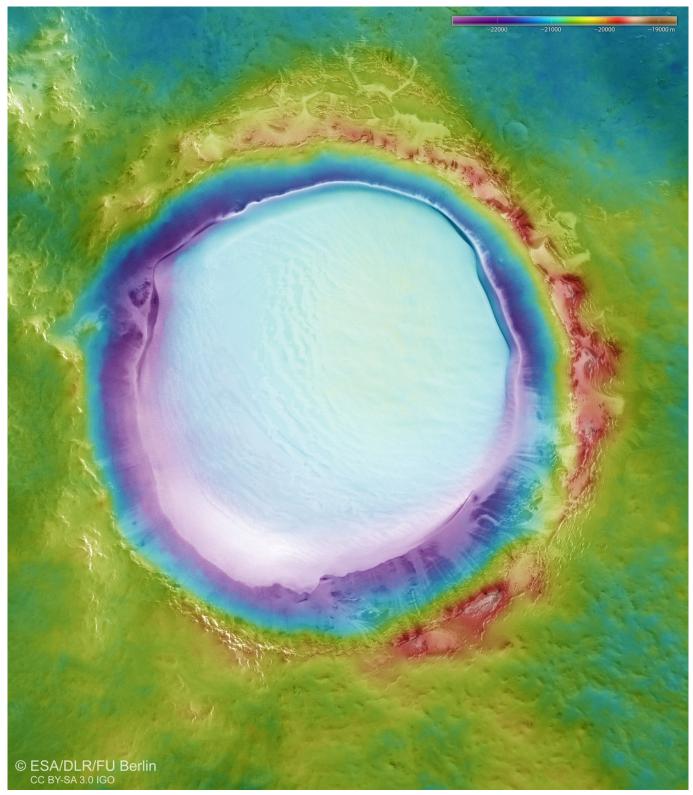


esa.int/Our_Activities

<u>/Space Science/Mars Express/Mars Express sees its first water scientific res</u> <u>ults...</u>. More recently, the spacecraft detected liquid water under the planet's south pole, see: <u>https://www.esa.int/Our_Activities</u>

The crater is found in the northern lowlands of Mars near the planet's north pole which is known as Olympia Undae for its wavy, dune-filled terrain. The crater's ice is protected by the topography and by a lair of cold air that shields it from the elements.





© ESA/DLR/FU Berlin

Also on rt.com Listen to the sky: NASA reveals the sound of wind on Mars (AUDIO)

The icy crater is named after chief rocket engineer and spacecraft designer Sergey Korolev, known as the father of Soviet space technology and the head of iconic space exploration missions including the Sputnik, Vostok, and Voskhod programs. A lesser known fact is that Korolev dreamt about a flight to Mars for decades and was actually working on a rocket that would have brought a man to the Red Planet – and who knows where this unfinished project might have ended if it wasn't for the Soviet visionary's untimely death in 1966.

Cuba=

READ MORE: Sergey Korolev: Space exploration's No. 1 constructor & total enigma