

The 3rd National Mars Science Seminar

22. 10. 2021 , www.mars.uj.edu.pl

Terrestrial analogues of Martian cone chains on Isidis Planitia

Dr Natalia Zalewska

Centrum Badań Kosmicznych Polskiej Akademii Nauk

[POSTER]

On Isidis Planitia there are thousands chains of small cones on Mars. We found 8 characteristic following types of chains of small cones in Isidis Planitia: (1) chains of separate cones, (2) chains of cones connected with each other, (3a) chains of cones connected to the furrow through the center, (3b) chains of cones connected to the furrow through the center with elongated, elliptical cones, (4) chains of cones with the traces of flows, (5) chains of irregular cones without calderas with a depression around the cones, (6a) ridge arches without cones, (6b) chains of cones on the ridges. We found also several new terrestrial structures that could be treated as analogues of Martian chains of cones. We believe that investigations of these analogues can help to indicate processes leading to formation of these Martian structures.



JAGIELLONIAN UNIVERSITY
IN KRAKÓW

Faculty of Physics, Astronomy
and Applied Computer Science
Faculty of Geography and Geology