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Morphological and Spectral Study of Rampart Craters on Mars

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Martian rampart craters are a special type of impact craters which only exist on Mars. They are considered to be evidence of ice or liquid water buried beneath the surface of Mars during the epoch of their formation. They are located mostly in the mid- and low-latitude regions of Mars. Their study are important to the history of the hydrosphere of the early Mars. In this work, we use images (HRSC/Mars Express and THEMIS/Mars Odessey) and spectral data (OMEGA/Mars Express) and elevation measurements (MOLA/Mars Global Surveyor) to characterize the physical properties of a set of rampart craters located in different geological districts.