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AVALANCHE DEPOSITS REVEALING ON THE BEZENGI GLACIER USING SENTINEL-2 SATELLITE IMAGES

Purpose. The aim of the paper is to evaluate the interpretation properties of Sentinel-2 satellite images from the point of view of revealing avalanche deposits on glaciers.

Scientific novelty. Despite the sometimes quite high significance of avalanche deposits in the glaciers nourishment, the assessment of the Sentinel-2 satellites images applicability for solving the problem of detecting avalanche deposits on glaciers has not yet been carried out.

Methods. The paper describes the main methodological approaches of revealing by such images the boundaries of the glacier, avalanche paths and avalanche deposits. The methods of visual interpretation of images synthesized in various color renditions were used.

Results. During the work, an assessment was made of the suitability of using the Sentinel-2 images in studies of the Caucasus valley glaciers avalanche nourishment, as well as the possibilities and limitations of using these images for interpreting avalanche deposits within the glaciers were described.

The practical significance. The results will allow to more effectively evaluate the avalanche nourishment of glaciers.

Keywords: geographical images interpretation, avalanche deposits, avalanche paths, glaciers, Sentinel-2, Bezengi.

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