

. .*

*fff.ddd.11@mail.ru

()

REMOTE MONITORING OF MOUNTAIN TOPOGRAPHY MORPHOMETRY USING UNMANNED AERIAL VEHICLES

Sherkhov A.Kh.

High-mountain Geophysical Institute

Abstract. *The article discusses the prospects for using a complex based on unmanned aerial vehicles (UAVs) and specialized software for monitoring the dynamics of hazardous natural objects in mountainous conditions. Using the tailings storage facility of the Tyrnyauzsky Mining and Processing Plant as an example, the article demonstrates the possibility of assessing spatial and temporal changes in the relief with high accuracy.*

Keywords: unmanned aerial vehicle, monitoring, hazardous slope processes, mudflow, landslide, digital elevation model.

[1].

[2, 3].

[4–7].

DJI Mavic Air

2

Agisoft Metashape Professional.

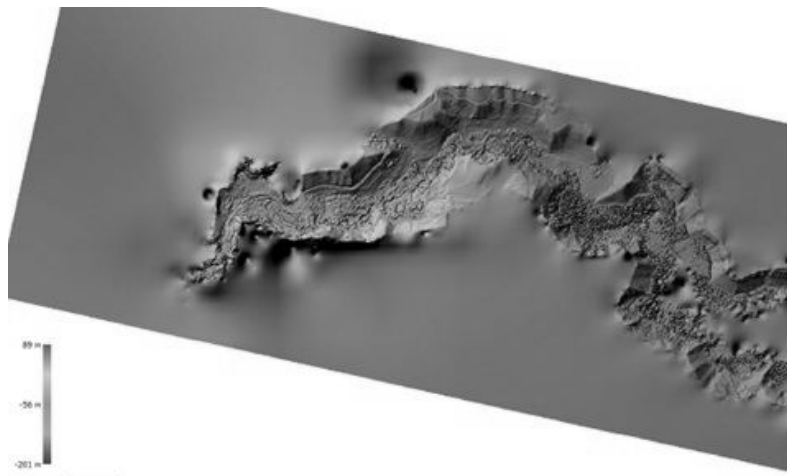
2021–2024

500+

461

167,7

(I).



1 – ()
(2),



2 –

1. //

, 22–23 2018 . , 2018. С. 68–70.

2.

(. . . .) // . 2019. Т. 63, 2. . 168–179.

-
3. ... () //
 4. ... , 2018. . 42–47.
 4. ... // . 2019. . 13, 1. . 72–85.
 5. ... () // IX International scientific and technical conference «Modern problems of water management, environmental protection, architecture and construction». Tbilisi, 2019. . 301–310.
 6. ... -
 - // . 2022. 4. . 100–106.
 7. ... -
- ∴ , 2019. . II. . 224–237.