Rock Glacier Inventory Update Report

GL_Diskolsland

Introduction

This report presents minor geometry adjustments to the original rock glacier inventory in the GL_Diskolsland area (Rouyet et al., 2025; doi.org/10.5281/zenodo.15467203; doi.org/10.5194/essd-2024-598).

As online basemaps are periodically updated, slight spatial misalignments between the original outlines and currently available imagery were observed. The proposed adjustments aim to improve visual and spatial consistency.

Cyan outlines represent the original outline.
Dark blue outlines represent the updated outline.

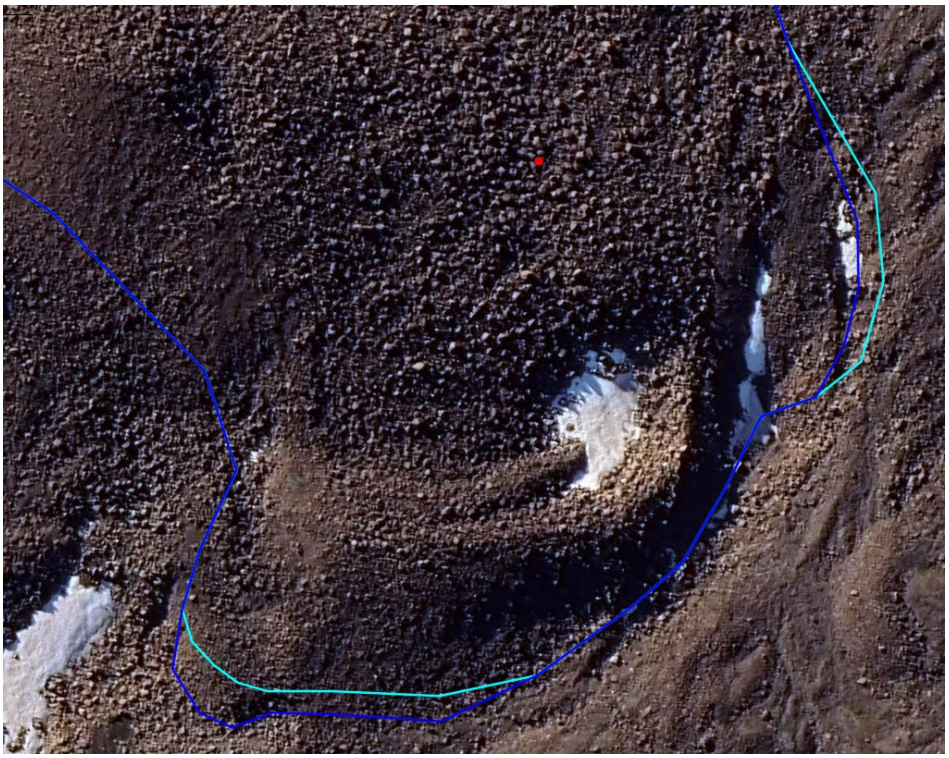
Description of Modifications

RGU698261N523741W



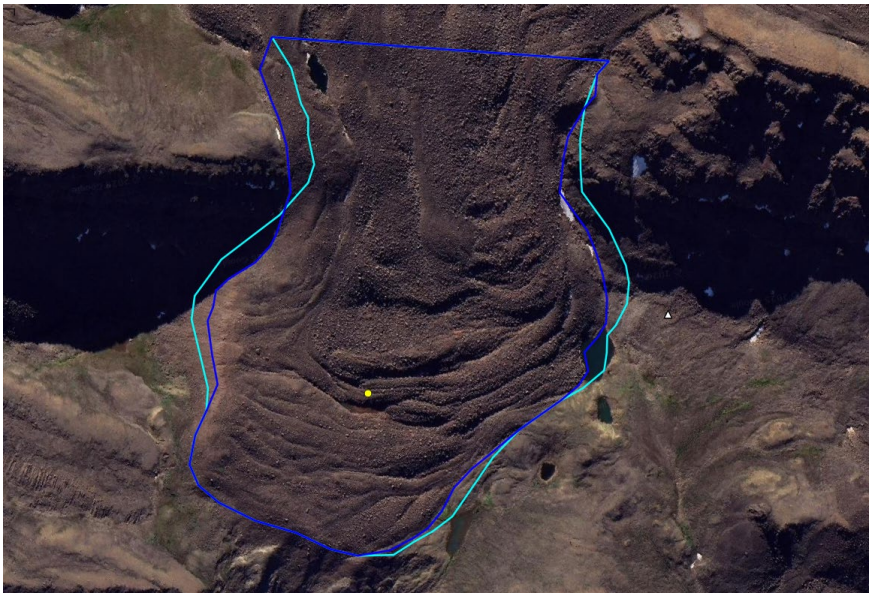
The lower boundary was adjusted to better match the visible break in the frontal slope and surface morphology. Minor corrections were also made in the lateral direction to improve the match with the geomorphological boundaries visible in Google Satellite orthoimages.

RGU698274N523875W



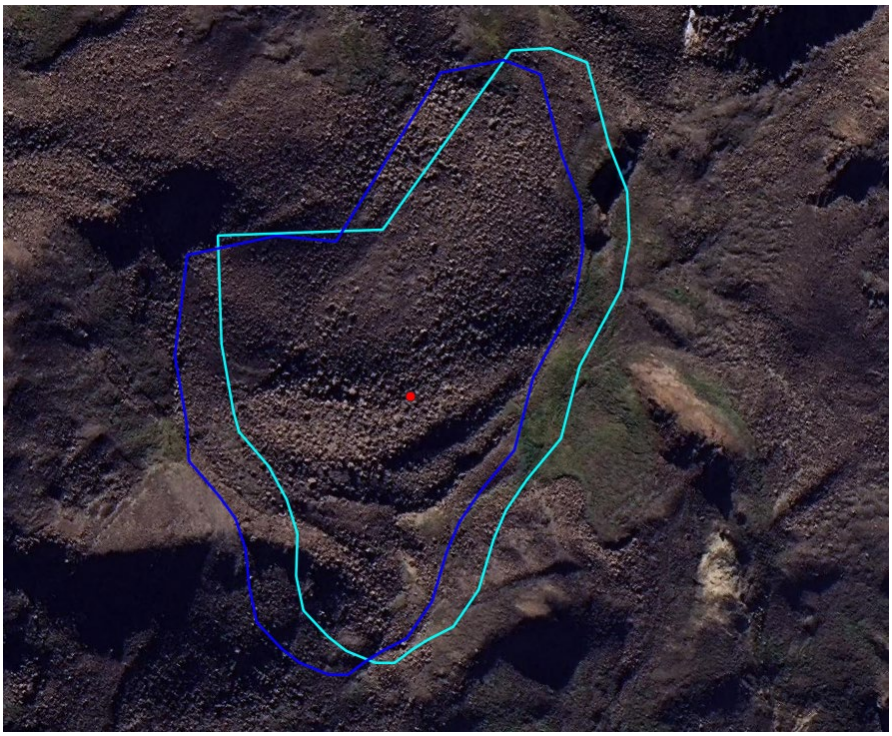
The frontal boundary was slightly adjusted to better follow the visible convex frontal morphology.

RGU698373N524074W



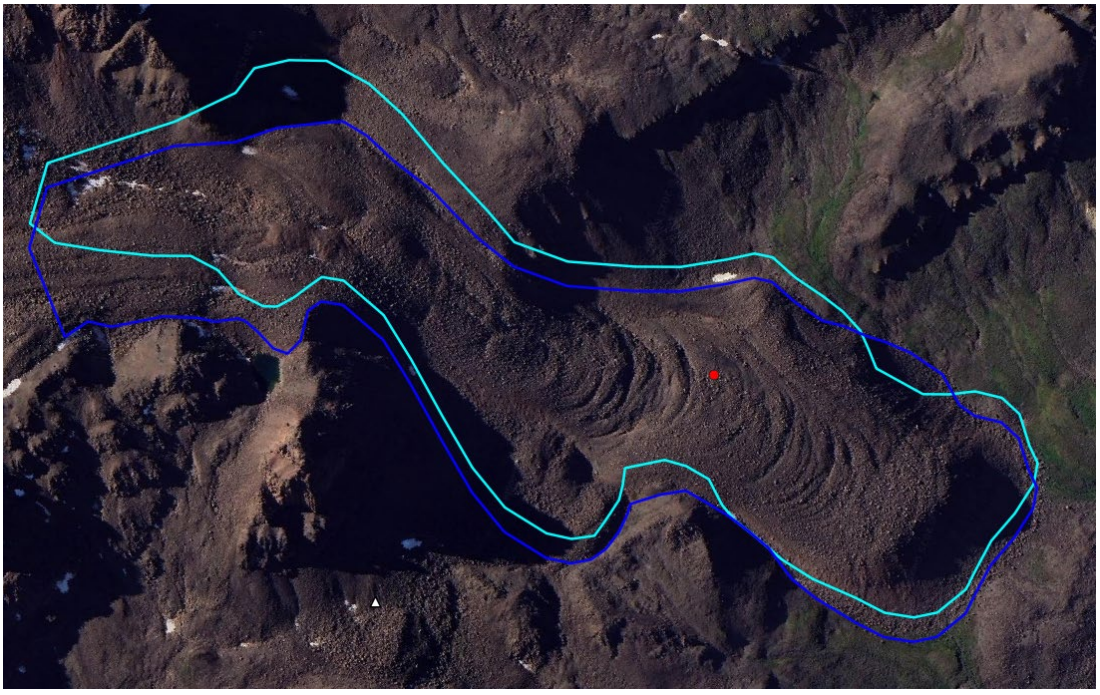
The entire outline appeared slightly shifted due to updates in the underlying basemap imagery. The geometry was adjusted to better match the visible rock glacier boundaries.

RGU698426N524196W



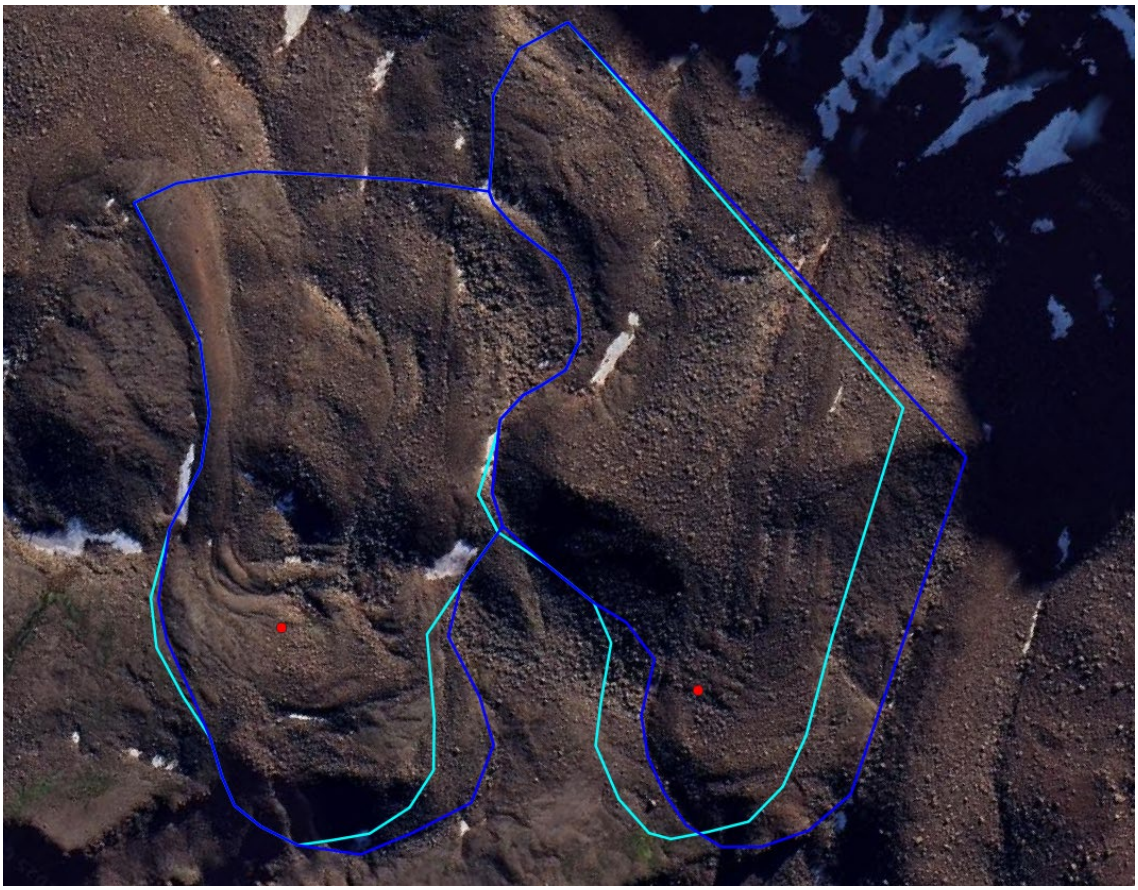
The entire outline was shifted to restore alignment with the visible rock glacier boundaries. No point-by-point editing was performed.

RGU698425N524325W



The outline was refined to better match the visible geomorphological boundaries and surface morphology.

RGU698373N524625W and RGU698361N524681W



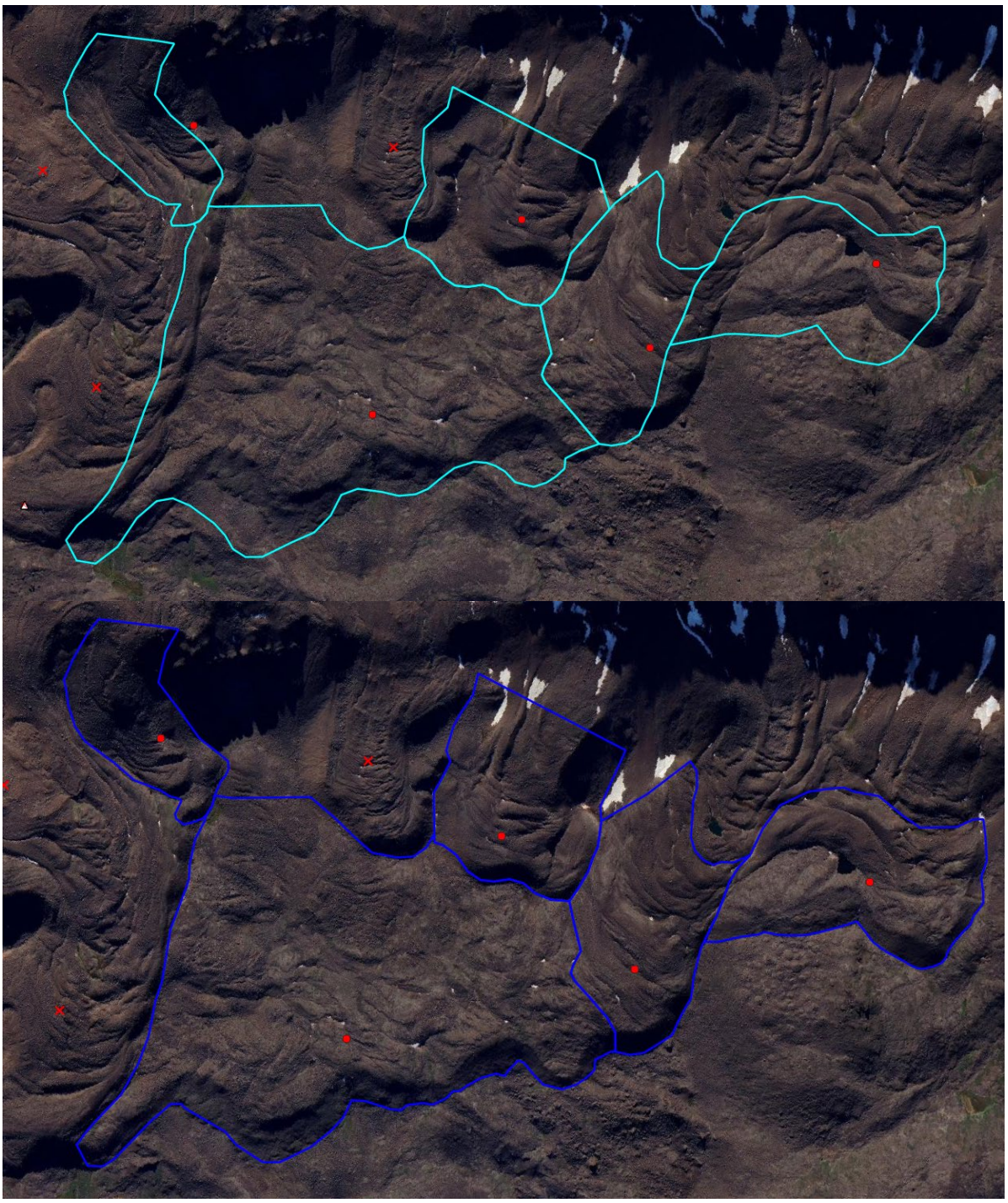
I tried to avoid modifying the outline vertices, so in my view the outline is still not perfect in upper part, but at least the changes are minimal. I mainly shifted the entire contour as a whole; however, a few vertices had to be slightly adjusted.

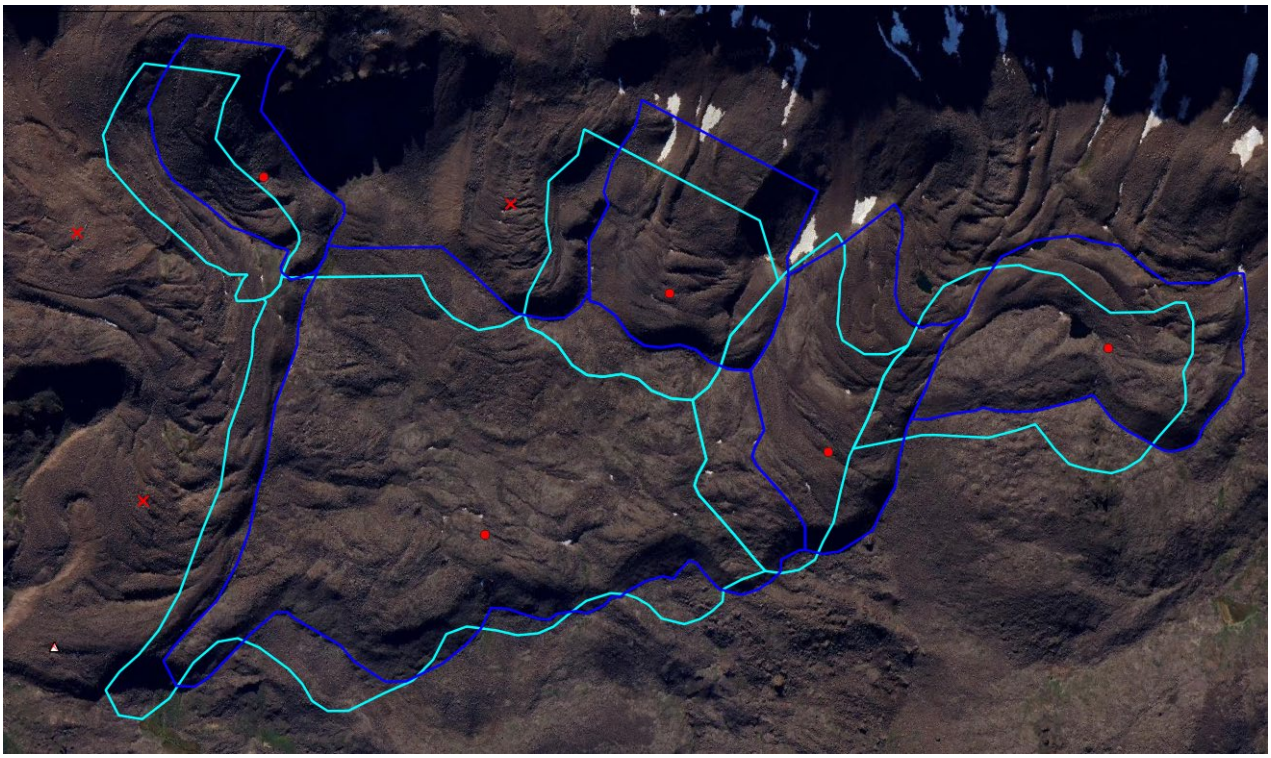
RGU698406N525061W



The uncertain rock glacier unit was removed, because it is on another rock glacier and it doesn't make sense.

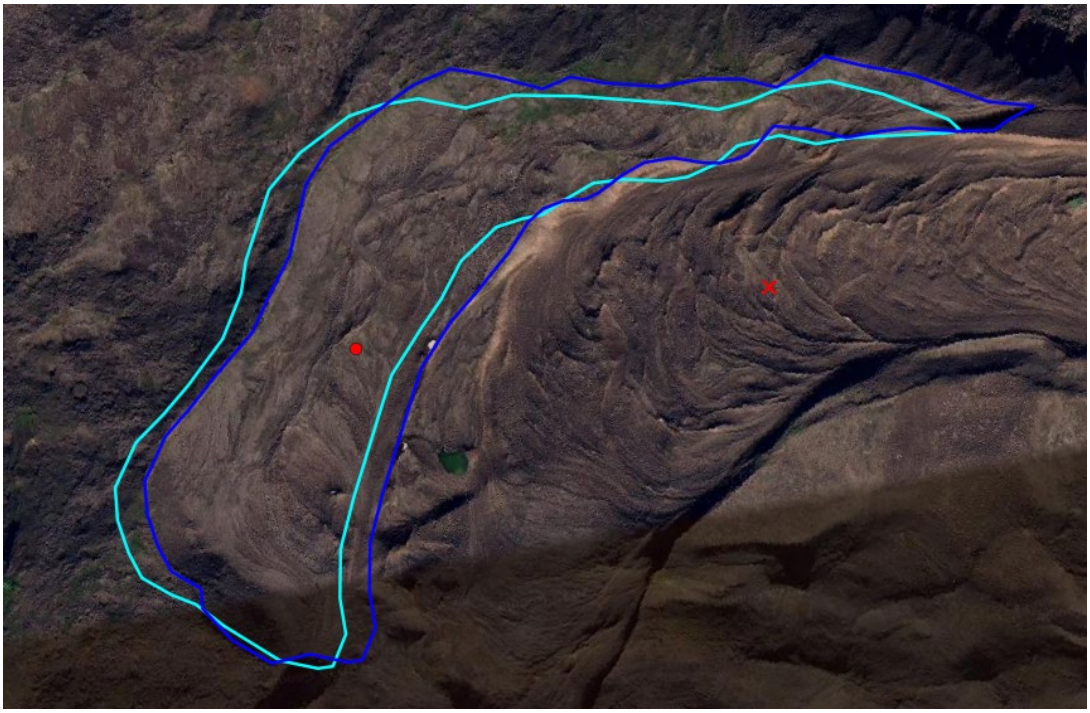
RGU698383N524936W, RGU698412N525134W, RGU698449N525182W, RGU698445N525363W, RGU698446N525037W.





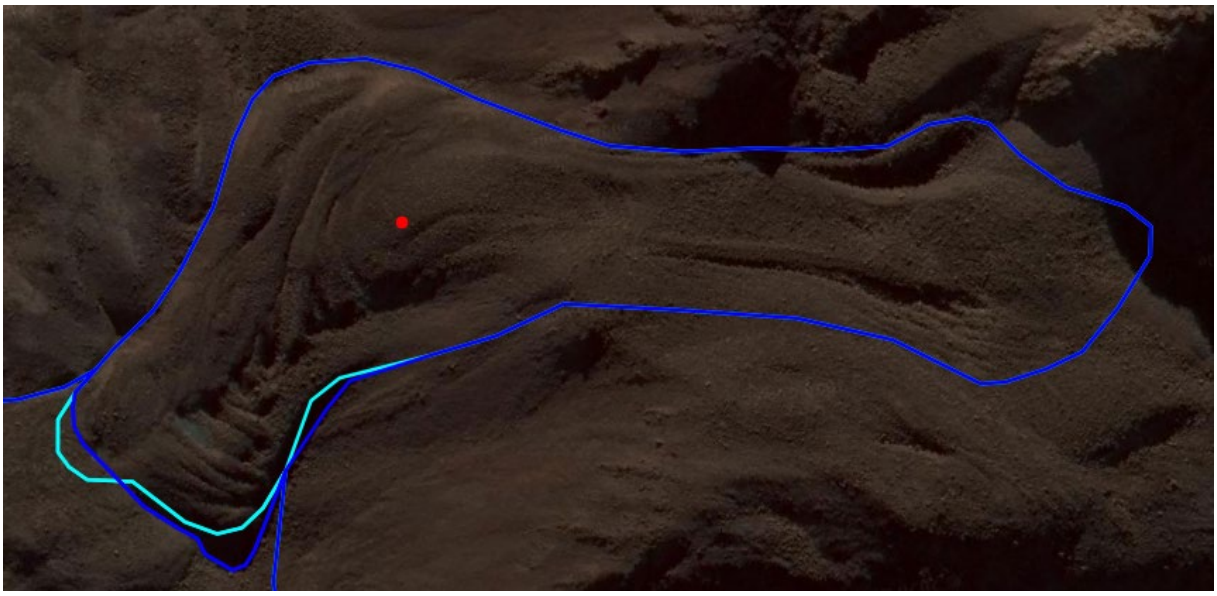
The outline was shifted as a whole to correct its position. The original vertex configuration was only slightly adjusted where necessary to ensure proper alignment and connectivity between adjacent units.

RGU698558N525476W



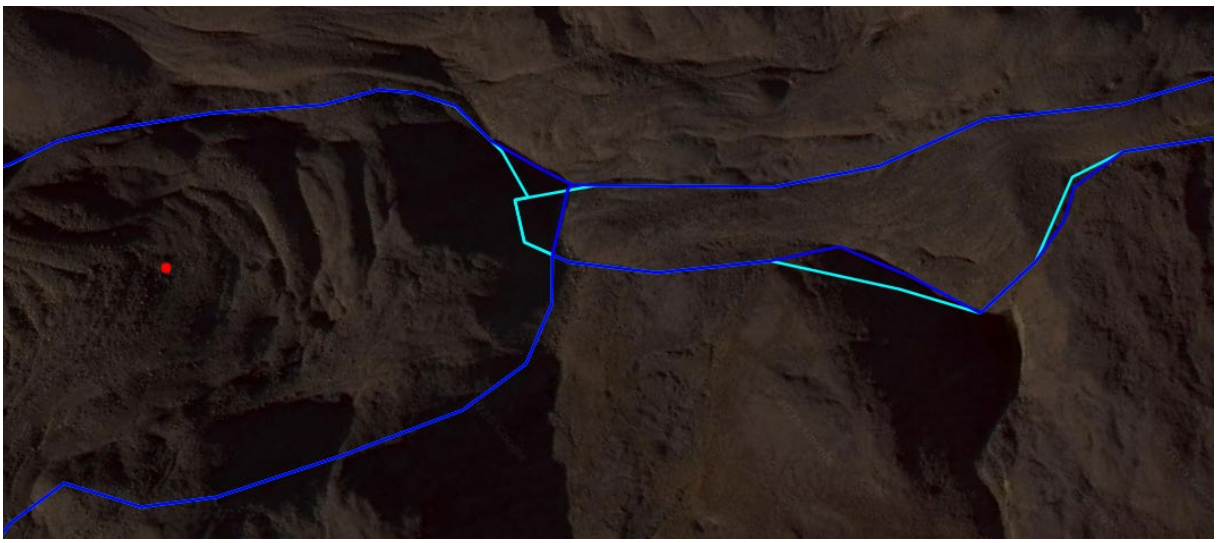
The outline was shifted as a whole to correct its position, and a few vertices in the upper part of the rock glacier were adjusted.

RGU698605N525919W



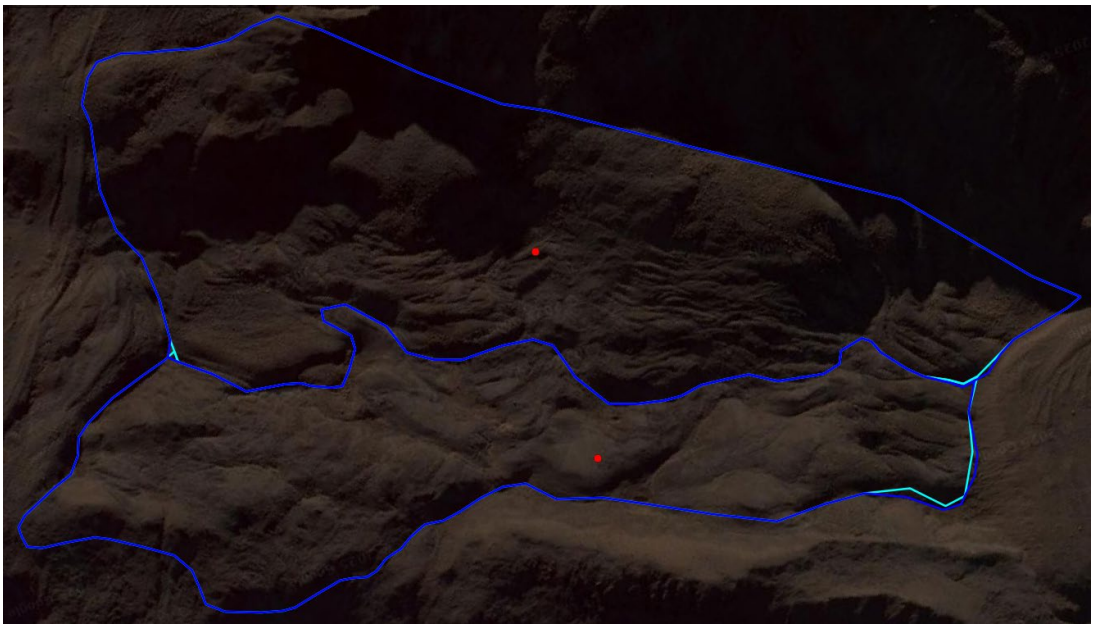
The frontal section was refined, although the adjustment may not have been essential.

RGU698731N526165W and RGU698898N525804W



In the updated imagery, a displacement of the shaded area reduced the clarity of the previous connection, and a few vertices were consequently adjusted.

RGU698760N526610W and RGU698790N526605W





The outline was slightly refined to better capture the rock glacier boundary. However, this modification may not have been strictly necessary and reflects a minor interpretative improvement. Although there are a few additional areas that could potentially be adjusted, I intentionally limited further edits to avoid introducing unnecessary changes, as they would be very minor.