

Glacier Geospatial Portal (GGP)



User Manual

Map Area User Manual

This manual provides a complete guide to the Interactive Map Area of the Glacier Geospatial Portal (GGP). Screenshots with callouts are embedded as placeholders. Replace placeholders with actual screenshots captured from the live system while keeping the callout numbering and captions unchanged.

1. Map Interface Overview

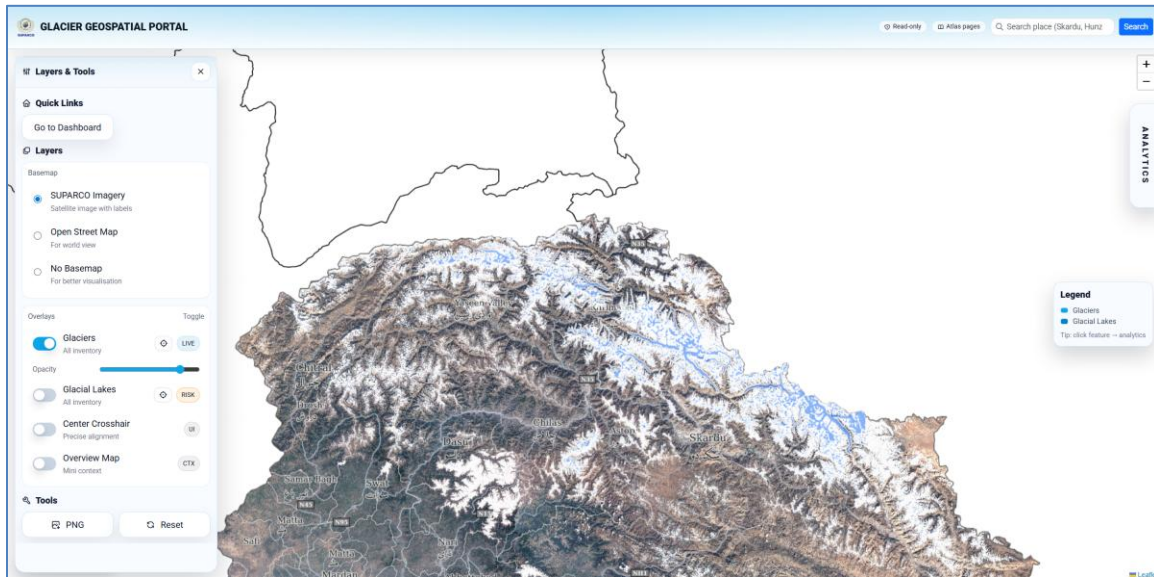


Figure 1: Overview of the GIMS interactive map interface

Callouts:

1. Top Navigation Bar
2. Search Box
3. Main Map Canvas
4. Legend
5. Analytics Tab
6. Map Controls Toggle
7. Coordinate Display

2. Map Controls Panel

Screenshot placeholder (replace with actual screenshot):

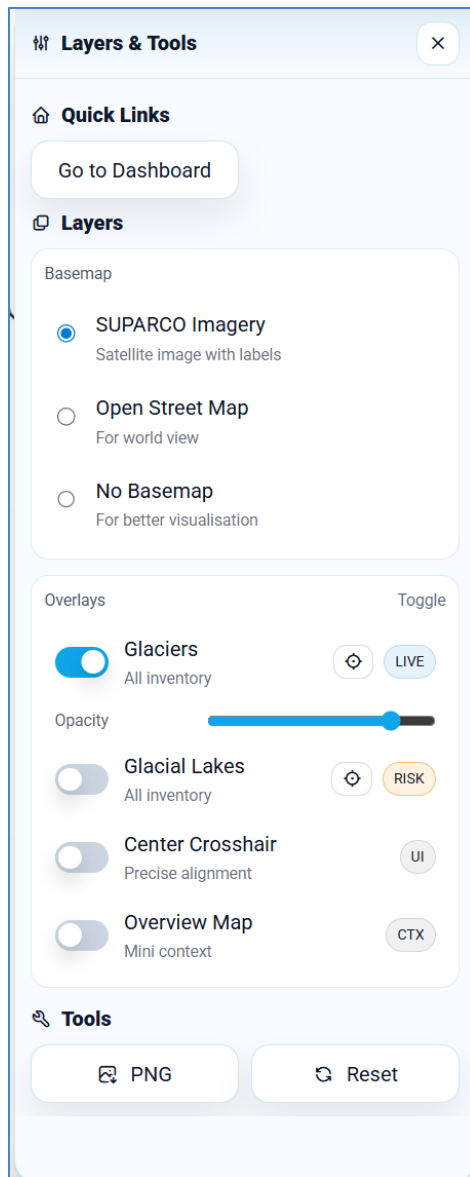


Figure 2: Map Controls panel for managing basemaps, layers, and tools

Callouts:

1. Basemap Selection
2. Glacier Layer Toggle
3. Opacity Slider
4. Zoom-to-Layer Button
5. UI Tools (Crosshair / Overview Map)
6. Export and Reset Tools
7. Dashboard Navigation

3. Map Legend

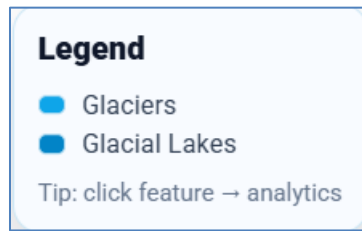


Figure 3: Legend explaining glacier and glacial lake symbology

Callouts:

1. Glacier Symbol
2. Glacial Lake Symbol
3. Interactive Usage Tip

4. Feature Selection on Map

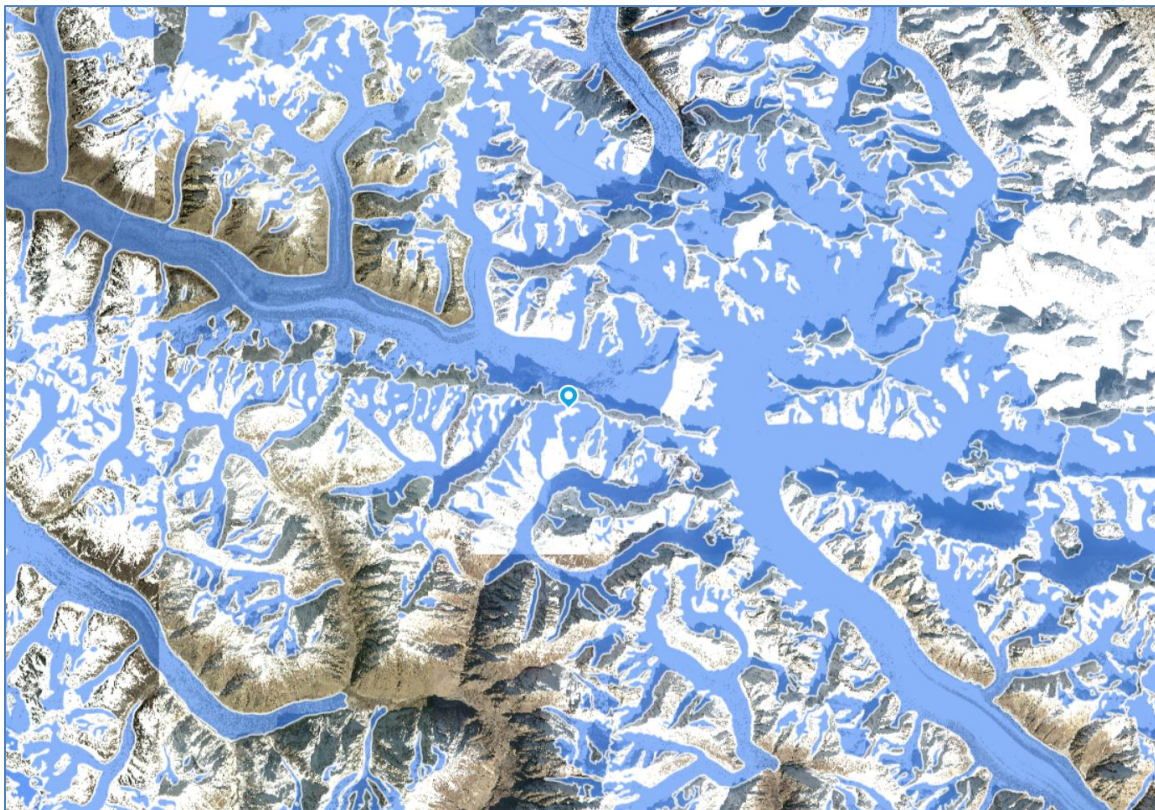


Figure 4: Selection of a glacier feature with pulsing marker highlight

Callouts:

1. Selected Glacier Feature
2. Pulsing Location Marker
3. Automatic Zoom to Feature

5. Analytics Panel – Attributes

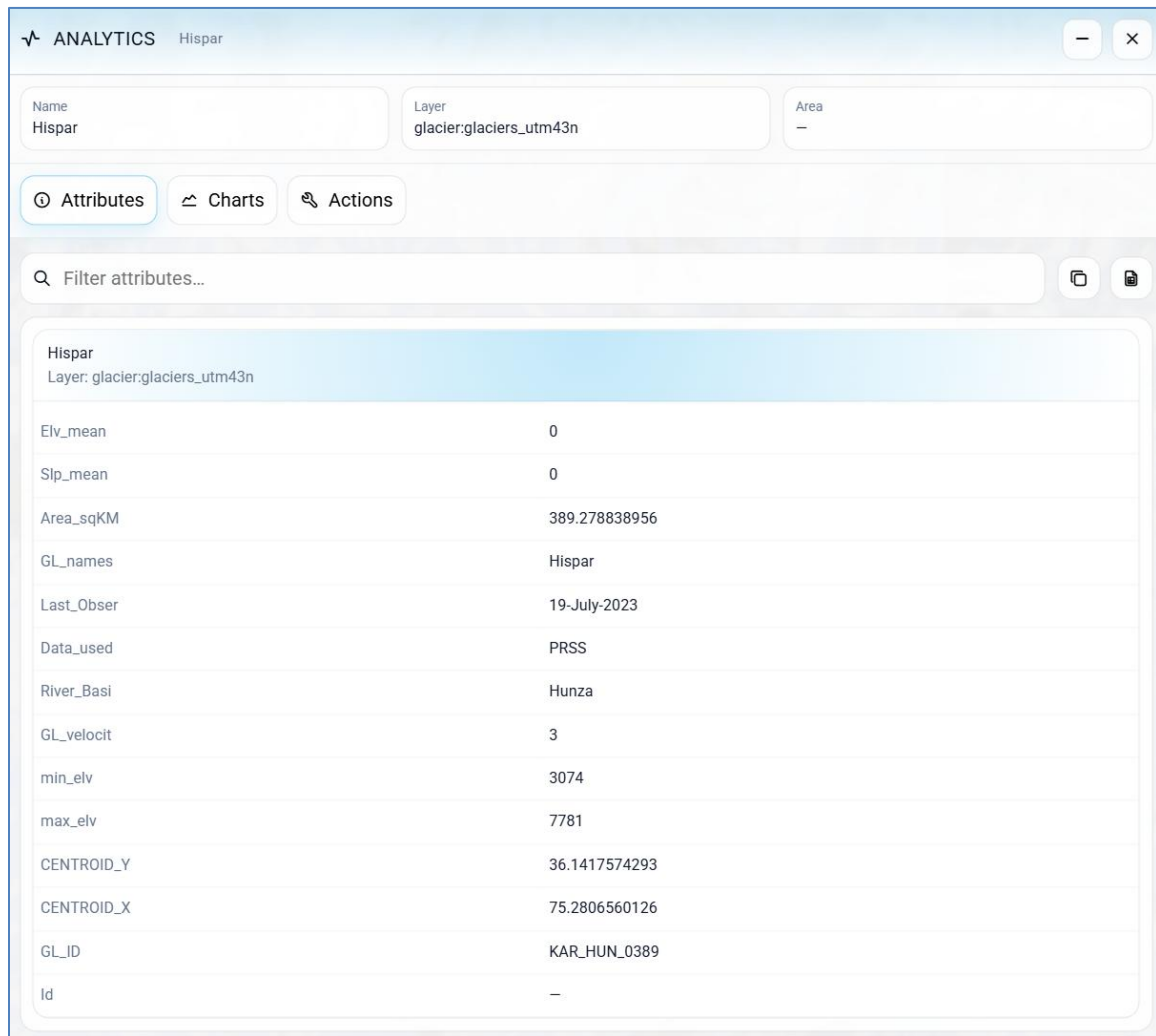


Figure 5: Analytics panel displaying detailed feature attributes

Callouts:

1. Feature Title
2. Key Performance Indicators (KPIs)
3. Attribute Table

4. Attribute Search Box
5. Export Options

6. Analytics Panel – Charts

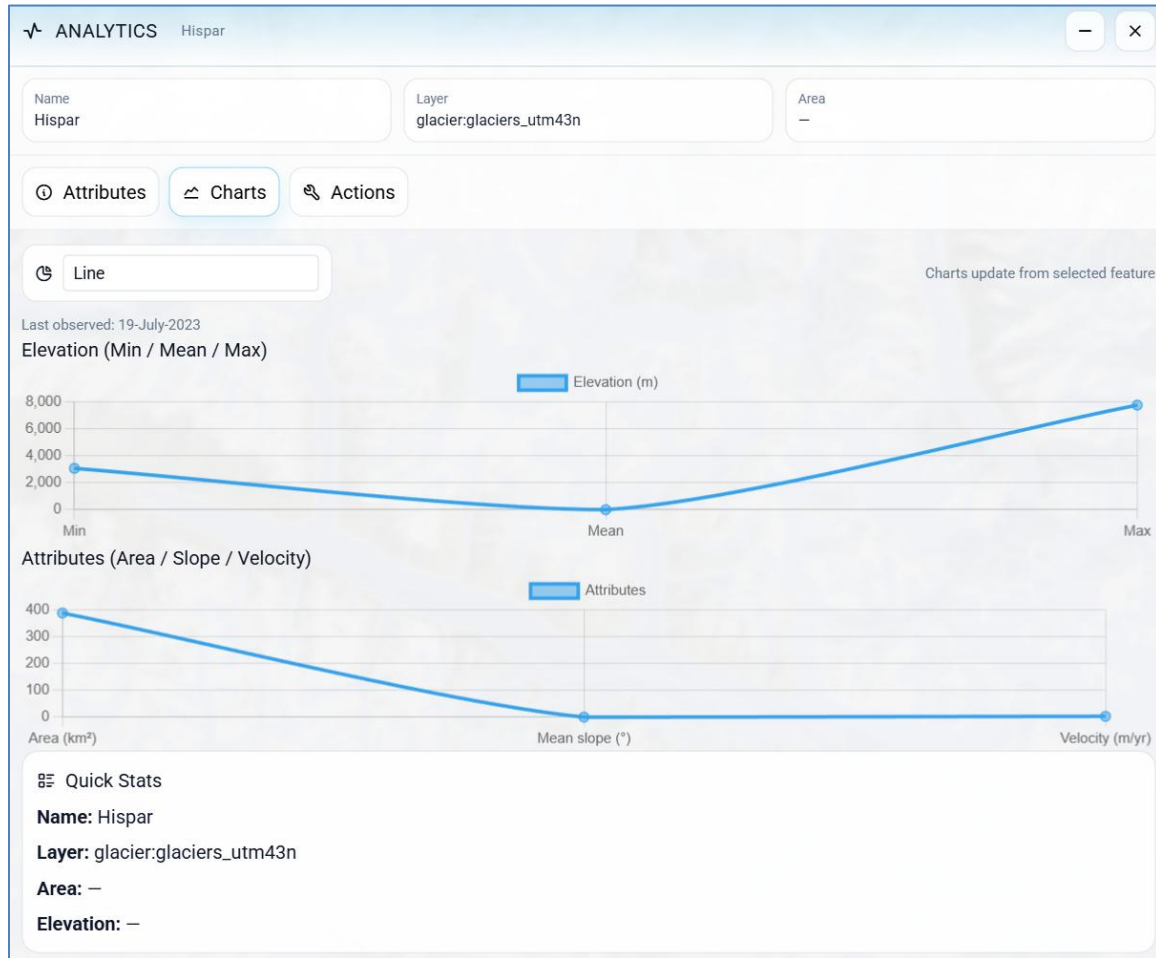


Figure 6: Charts and visual analytics for glacier statistics

Callouts:

1. Chart Display Area
2. Area / Elevation Trend Charts
3. Quick Statistics Summary

7. No Basemap (Analysis Mode)

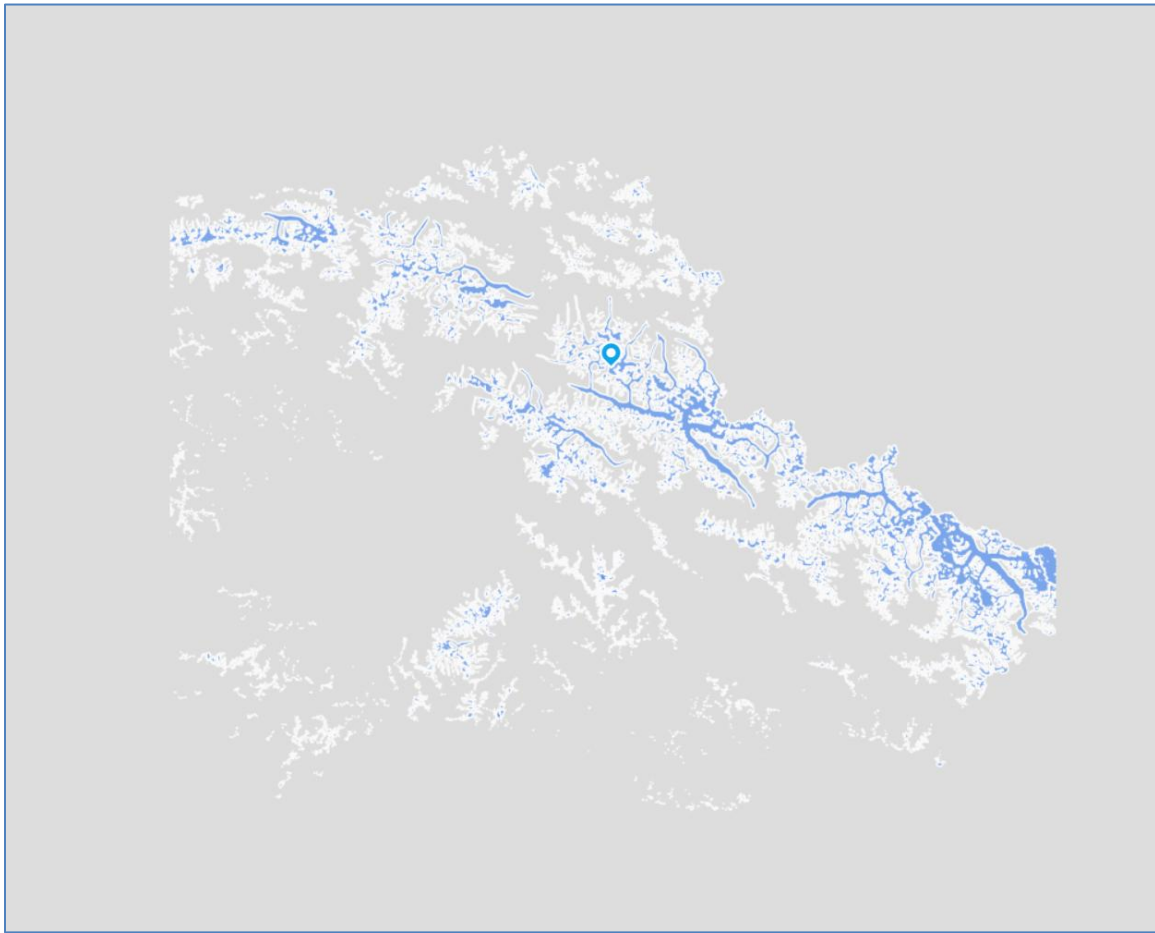


Figure 7: No basemap mode for scientific analysis

Callouts:

1. No Basemap Selected
2. Glacier Overlay Only
3. Neutral Analysis Background