

SOMA - Moon Boulder Detection Report

Generated on: 2025-07-05 01:44:30

Boulder Detection Statistics Summary

Analysis Generated: 2025-07-05 01:44:26

DETECTION SUMMARY

Total Boulders Detected : 814
Large Boulders (>avg) : 249
Small Boulders (avg) : 565

SIZE DISTRIBUTION

Minimum Diameter : 4.12 m
Maximum Diameter : 79.91 m
Average Diameter : 16.13 m
Median Diameter : 10.84 m
Standard Deviation : 13.64 m

AREA COVERAGE

Total Area Covered : 284991.43 sq. meters
Average Boulder Area : 350.11 sq. meters

DATA QUALITY

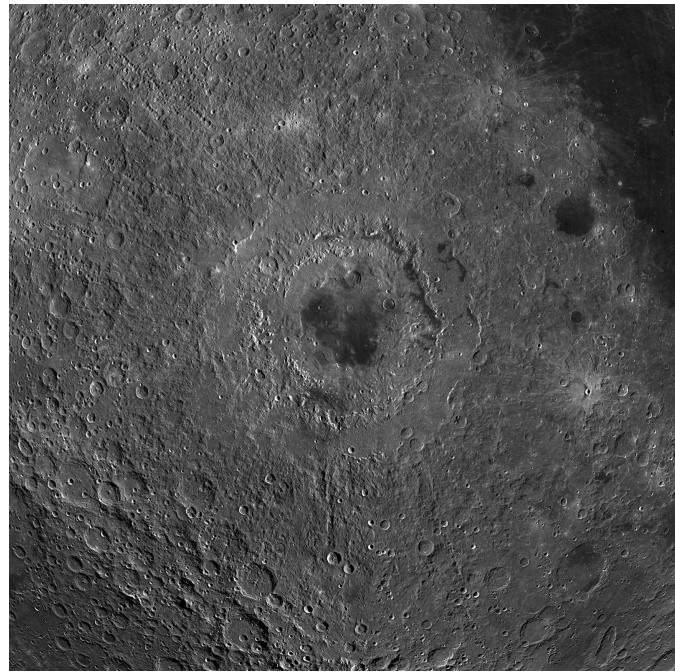
Data Source Column : Diameter (m)
Total Data Points : 814
Missing Values : 0

PERCENTILE DISTRIBUTION

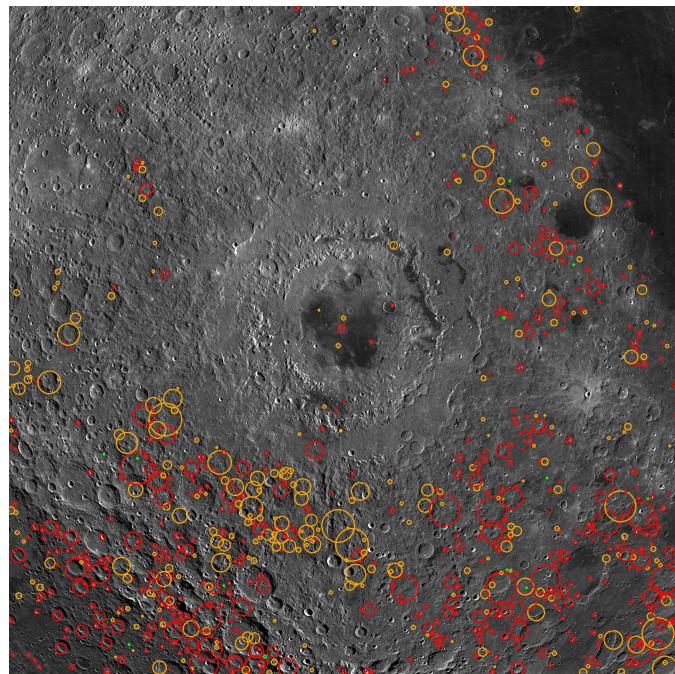
25th Percentile : 7.62 m
50th Percentile (Median) : 10.84 m
75th Percentile : 18.59 m
90th Percentile : 33.54 m
95th Percentile : 45.21 m

Generated by SOMA - Advanced Lunar Analysis System

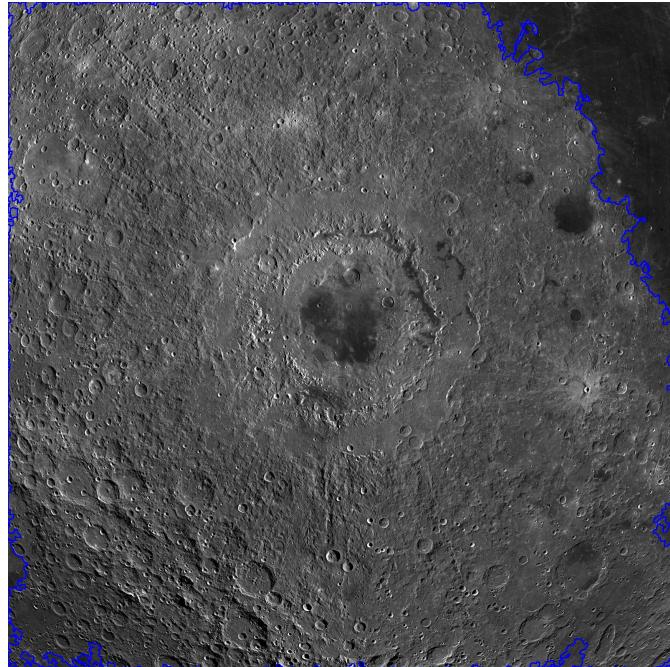
1. Original Image



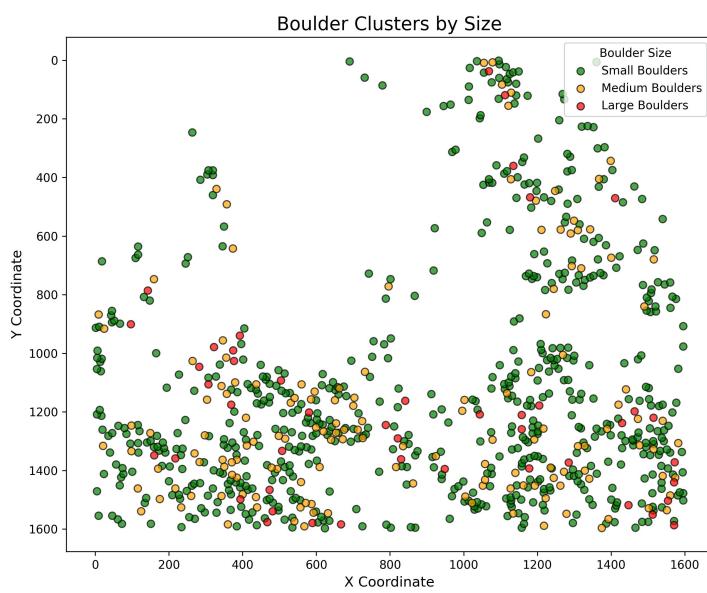
2. Detected Boulders



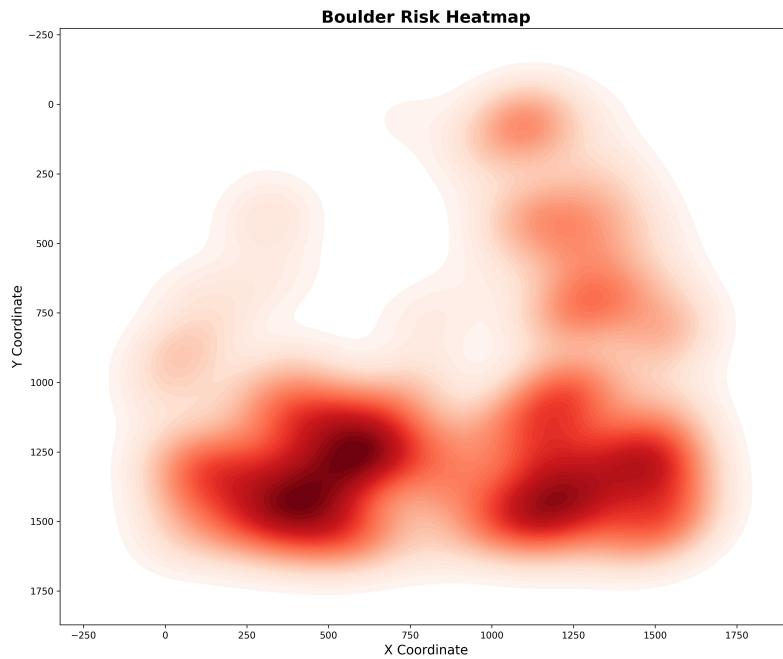
3. Detected Landslide



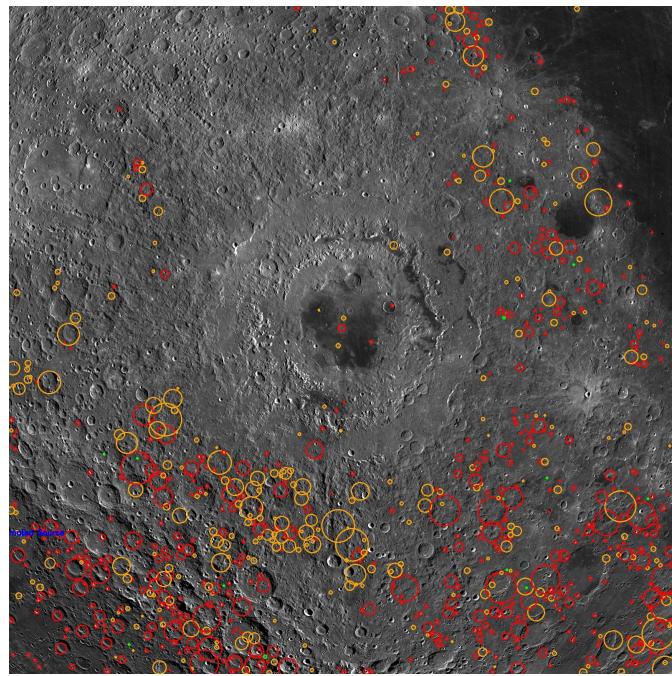
4. Boulder Clustering Analysis



5. Risk Assessment Heatmap



6. Source Point Analysis



■ Analysis Complete

This report contains comprehensive analysis of lunar boulder distribution,
clustering patterns, risk assessment, and source point estimation.

All analysis performed using advanced computer vision and machine learning techniques.