

Mineral Resources Section

Alaska Division of Geological & Geophysical Surveys

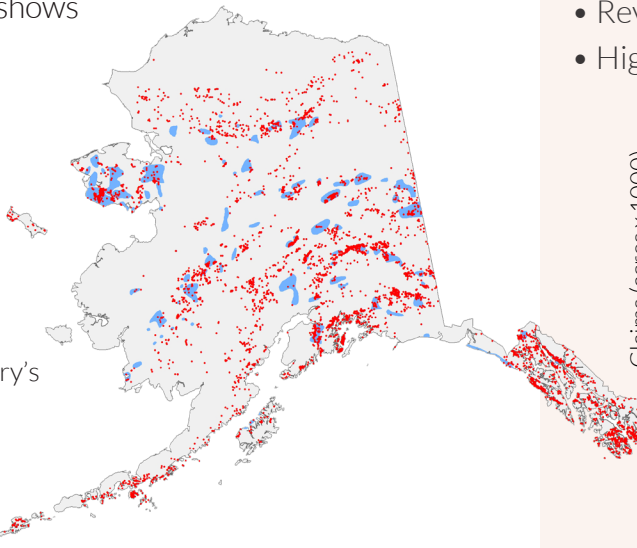


Alaska's diverse geology, track record of exploration success, political stability, and settled land tenure make Alaska attractive for mineral exploration.

The Mineral Resources section attracts industry investment and accelerates mineral discovery and development by:

- Providing airborne geophysical surveys
- Conducting field-based geologic mapping and geochemical sampling
- Carrying out mineral-resource assessments
- Reporting on Alaska's framework geology and mineral potential
- Providing scientific expertise to exploration companies, investors, state and federal agencies, and the public via direct responses to requests, public presentations, and trade shows

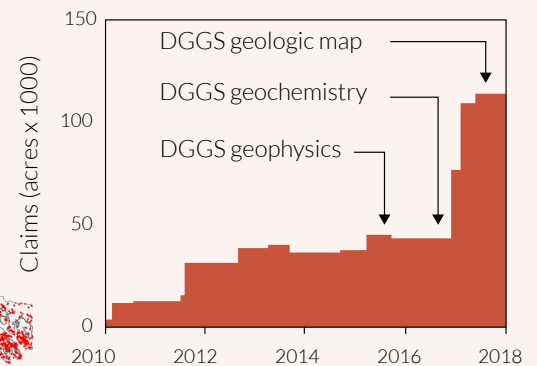
Map of Alaska's placer gold districts (blue) and lode mineral occurrences (red). The Mineral Resources section has ongoing projects statewide to aid industry's efforts to find economically mineable mineral deposits.



Direct Benefit

Mineral Resources section expertise and publications are important for increasing:

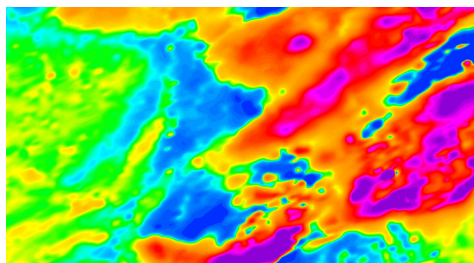
- Alaska's global competitiveness in attracting industry interest and investment
- Industry and state-land manager awareness of Alaska's mineral potential
- Exploration and mineral-discovery success
- Claim staking
- State revenues
- Revenue for Alaska businesses
- High-paying jobs for Alaskans



Industry claim staking increased after release of DGGs data.

When a mineral deposit is developed, the state receives a greater than 10-fold return on its initial investment.

View of Red Mountain in northern Alaska Range. Industry geologists from White Rock Minerals used DGGs' geophysical surveys, geochemical data, and geologic map to stake claims and define exploration targets. In summer 2018 they made new mineral discoveries.



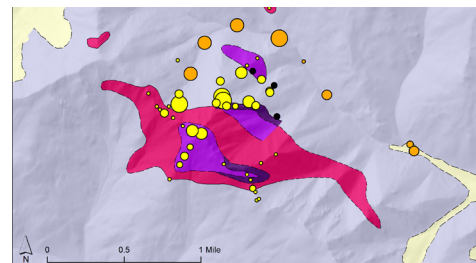
Geophysical Surveys

Geophysical data helps industry identify and develop sub-surface exploration targets. Magnetic, electromagnetic, radiometric, and other surveys enhance the Mineral Resources section's ability to make accurate geologic maps by "seeing" geologic features below vegetation and surface cover.



Geologic Mapping

Geologic maps are used by industry to identify areas of Alaska with features prospective for mineral discovery. Recent DGGs mapping in the Bonnifield and Tok River areas triggered claim staking and increased State revenue and employment opportunities for Alaskans.



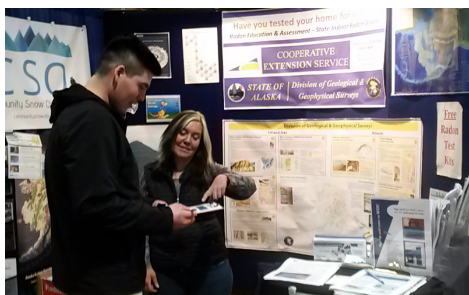
Mineral-Resource Assessments

DGGs informs industry about Alaska's mineral deposits by providing mineral resources maps and ore and alteration characterization to help industry target regions favorable for ore deposits.



Alaska Mineral Industry Report

An annual, factual record of mineral-industry activity in Alaska and its contribution to Alaska's economy. This report promotes Alaska's mineral industry, protects investors, and assists legislators.



Publications & Outreach

The Mineral Resources section provides information to assist the mineral industry, investors, state and federal agencies, land managers, and the public. Publications are available at: dggs.alaska.gov



Geochemical Datasets

Regional geochemical sampling identifies metal anomalies in rocks and sediments. This data attracts mineral-industry attention and facilitates exploration success.



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