

A helicopter stops to pick up DGGGS field crew members in the Brooks Range.



mineral deposit core samples, and regional geologic samples, which are valuable to companies considering exploring for minerals and energy resources in Alaska; they also help companies currently developing Alaska's resources to determine where to explore next. Rock and materials sample sets are available for study in-house at the GMC.

OUR MISSION STATEMENT

Alaska Statute (§41.08.020) charges the Division of Geological & Geophysical Surveys to "...conduct geological and geophysical surveys to determine the potential of Alaskan land for production of metals, minerals, fuels, and geothermal resources; the locations and supplies of groundwater and construction materials; the potential geologic hazards to buildings, roads, bridges, and other installations and structures; and...conduct such other surveys and investigations as will advance knowledge of the geology of the state..." Section 41.08.030 further instructs the state geologist to "...print and publish an annual report and such other special and topical reports and maps as may be desirable for the benefit of the state..."

GEOLOGIC REFERENCE LIBRARY and PUBLICATION SALES

DGGGS maintains a geologic reference library specializing in geologic information for Alaska. The library hosts an impressive collection of reports and maps published by state and federal agencies, universities, and geologic entities. Reference assistance is provided and DGGGS reports and maps are available for purchase. Library references are for viewing in the building. All DGGGS publications can be accessed via our "virtual library" on our website (<http://dgggs.alaska.gov>). U.S. Geological Survey reports and maps and those of some other related agencies are also available online at the DGGGS website.

Hours of Operation:

Monday–Friday, 8 am–4:30 pm

Contact Information:

Phone: 907-451-5010

Email: dggspubs@alaska.gov

Geologic Materials Center (GMC): 907-696-0079

Library Collections:

- Alaska Division of Geological & Geophysical Surveys (DGGGS)
- Alaska Territorial Department of Mines
- U.S. Geological Survey (USGS)
- U.S. Bureau of Mines (no longer exists)
- U.S. Bureau of Land Management (BLM)
- Miscellaneous geological reports from other state geological surveys
- Miscellaneous geological reports of Canada
- National Uranium Resource Evaluation (NURE) data
- Mineral Industry Research Laboratory (MIRL)
- Cold Regions Research & Engineering Laboratory (CRREL)
- University of Alaska
- Alaska Department of Transportation & Public Facilities (DOTPF)
- GSA Memoirs, Special Papers, and Abstracts
- Other miscellaneous abstracts and proceedings
- Professional journals
- Student theses on Alaska
- Geologic textbooks
- Index and Bibliography of Geology

The Alaska Division of Geological & Geophysical Surveys



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WHAT WE DO

Information Circular 12

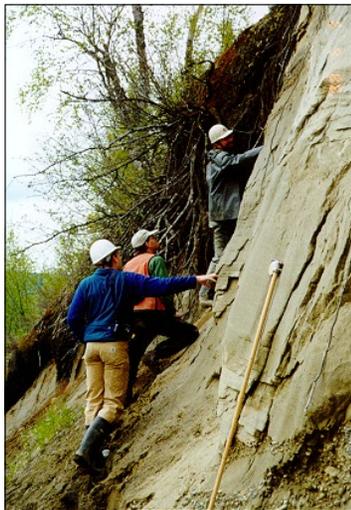
Revised February 2016

THE ALASKA GEOLOGICAL SURVEY

The Division of Geological & Geophysical Surveys (DGGS) is part of Alaska's Department of Natural Resources. Alaska relies on DGGS to respond to questions about the state's geologic resources and hazards. Our geologists and support staff are leaders in researching Alaska's geology and implementing technological tools to most efficiently collect, interpret, publish, archive, and disseminate that information to the public. The information we collect and the publications we produce:

- help Alaska's economy by encouraging prudent resource development;
- help the energy and mineral industries find Alaska's economic resources;
- help land managers effectively manage Alaska's lands;
- help avoid or reduce the disastrous effects that could be caused by natural geologic hazards (such as volcanoes, earthquakes, avalanches, landslides, tsunamis);
- help earth scientists and others understand Alaska's geologic history.

Geologic data are collected through field observations, mapping, and analysis of rocks and soils. The raw data generated by fieldwork are the backbone



DGGS geologists examine sedimentary structures in Tertiary-age sandstones of the Petersville/Yentna Mining District. The Jacob's staff in the foreground is used to measure stratigraphic sections. Photo by Jessica Mayer.

of the research presented and published by DGGS. DGGS houses and shares three types of information: (1) Recent reports and maps containing current geologic information in hardcopy and digital formats, (2) archived legacy data and reports, and (3) rock and materials sample sets collected by government agencies and private companies. The reports and maps we produce cover a variety of geologic subjects including mineral resources, coal, oil and gas resources, construction materials, earthquakes, volcanoes, and other geologic hazards. The products can be viewed, interacted with, and downloaded from our website (<http://dggg.alaska.gov>).

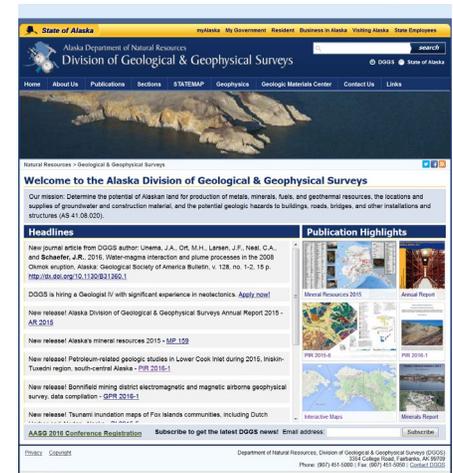
DGGS has six components that work together to make geologic information and materials available to the public:

Mineral Resources Section—Conducts statewide bedrock geologic mapping, geochemical sampling, geophysical surveying, and mineral-resource evaluations to enhance the state's knowledge of its diverse geology and mineral resources. The maps, databases, and reports generated by field, office, and laboratory work are used to facilitate wise land-management decisions, and to attract industry investment and facilitate successful exploration for minerals in Alaska.

Energy Resources Section—Creates new geologic information about the state's oil, natural gas, coal, and geothermal resources. They develop geologic reports and maps that focus on the state's most promising areas for energy resources to help energy companies guide their exploration efforts.

Engineering Geology Section—Determines the potential geologic hazards to buildings, roads, bridges, and other installations and structures, and the locations and supplies of groundwater and construction materials. The maps and reports they create show the distribution of surface materials and the locations of hazards, such as active faults, landslides, and tsunamis. Geologic hazards assessments assist communities and consultants with public safety issues.

Volcanology Section—Protects public safety through monitoring and evaluating hazards from Alaska volcanoes and providing timely and accurate warnings of volcanic unrest and eruptions. The section combines volcanology expertise and advanced skills in database and web-based information distribution to efficiently respond to unrest and eruptions at Alaska's 52 historically active volcanoes.



Visit our "virtual library" on the DGGS website: <http://www.dggg.alaska.gov>

Geologic Communications Section—Ensures fast and easy public access to Alaska's geologic data; and develops and serves geologic data products to help answer questions about Alaska's resources, natural hazards, and land management issues. It publishes reports and maps created by the four other sections; develops and maintains databases of geologic information; and creates online interactive applications and other methods to get the geologic information to the public.

The Geologic Materials Center (GMC)—Permanently archives, indexes, protects, and makes available for public inspection geologic materials and related data to help advance exploration and knowledge of Alaska's natural resources. DGGS stores geologic samples of oil and gas well cores,