

GEOLOGICAL LITERATURE ON THE ALASKA PENINSULA AND ADJACENT AREAS

..... SPECIAL REPORT 20

By J. S. KELLY and J. M. DENMAN



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F O R E W O R D

The Alaska Peninsula and adjoining area has been of keen interest to geologists since the early period of Alaskan exploration. The presence of oil seeps led to the drilling of the first exploratory well on the Alaska Peninsula near Kanatah in 1903. Exploratory drilling has continued spasmodically since that time without a discovery to date.

As an aid to future exploration J. S. Kelley Jr. and J. M. Denman have prepared this bibliography of the geological literature of the area. This is the third such bibliography of an important geological province prepared by personnel of the Branch of Organic Fuel and Chemical Resources, U. S. Geological Survey with publication privileges extended to the Alaska Department of Natural Resources. This spirit of coordination and cooperation manifested by the U. S. Geological Survey's offer is not only sincerely appreciated by those of us in State Government but serves as factual evidence of the close Federal-State relationship in Alaska on matters of earth science.

Charles F. Herbert, Commissioner
Department of Natural Resources
State of Alaska

Juneau, Alaska
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INTRODUCTION

This compilation includes most of the geological literature on the Alaska Peninsula and adjacent areas in southwestern Alaska (fig. 1) published prior to January 1, 1972. As shown by figure 2, the land area encompasses the Aleutian Range, Unimak Island, Shumagin Island, and Bristol Bay lowlands along with adjacent portions of the Kuskokwim Mountains and Alaska Range. Reports dealing with Bristol Bay, the continental shelf bordering the peninsula on the south, and Shelikof Strait are also included.

The boundaries of this area are drawn to include two potential oil-producing areas, a portion of the Bristol Bay basin and the Alaska Peninsula subprovince. The Alaska Peninsula subprovince is the southwest extension of the relatively linear Cook Inlet-Alaska Peninsula province; the subprovince extends through the area of Shelikof Strait to the tip of the Alaska Peninsula (fig. 3). It includes moderately deformed marine clastic rocks of Mesozoic age and predominately nonmarine strata of Tertiary age. The Bristol Bay basin is marked by the areal distribution of Quaternary deposits about the head of Bristol Bay and along the northwest flank of the Aleutian Range. The basin is limited to the northwest by the seaward extension of the highly deformed, locally intruded, and metamorphosed rocks exposed in the Kuskokwim Mountains. The basin extends southwestward to the base of the continental shelf. Tertiary and Mesozoic sedimentary rocks make up the basin. The Tertiary section consists of nonmarine to marine clastic rocks. Marine clastic rocks make up the Mesozoic section.

During compilation of these references, special effort was made to include literature pertaining to petroleum geology. All available petroleum trade journals were checked for articles pertaining to the Alaska Peninsula and adjacent areas. Special effort was also made to include the closely associated fields of stratigraphy, paleontology, structural geology, and geophysics. Literature on mining operations and mineral deposits is well represented, although no attempt has been made to research individual professional and trade journals dealing principally with mining operations.

The simple one-subject index accompanying the references is designed to serve only as a guide in library search. The references are not cross indexed; titles containing two subjects are arbitrarily classed under the

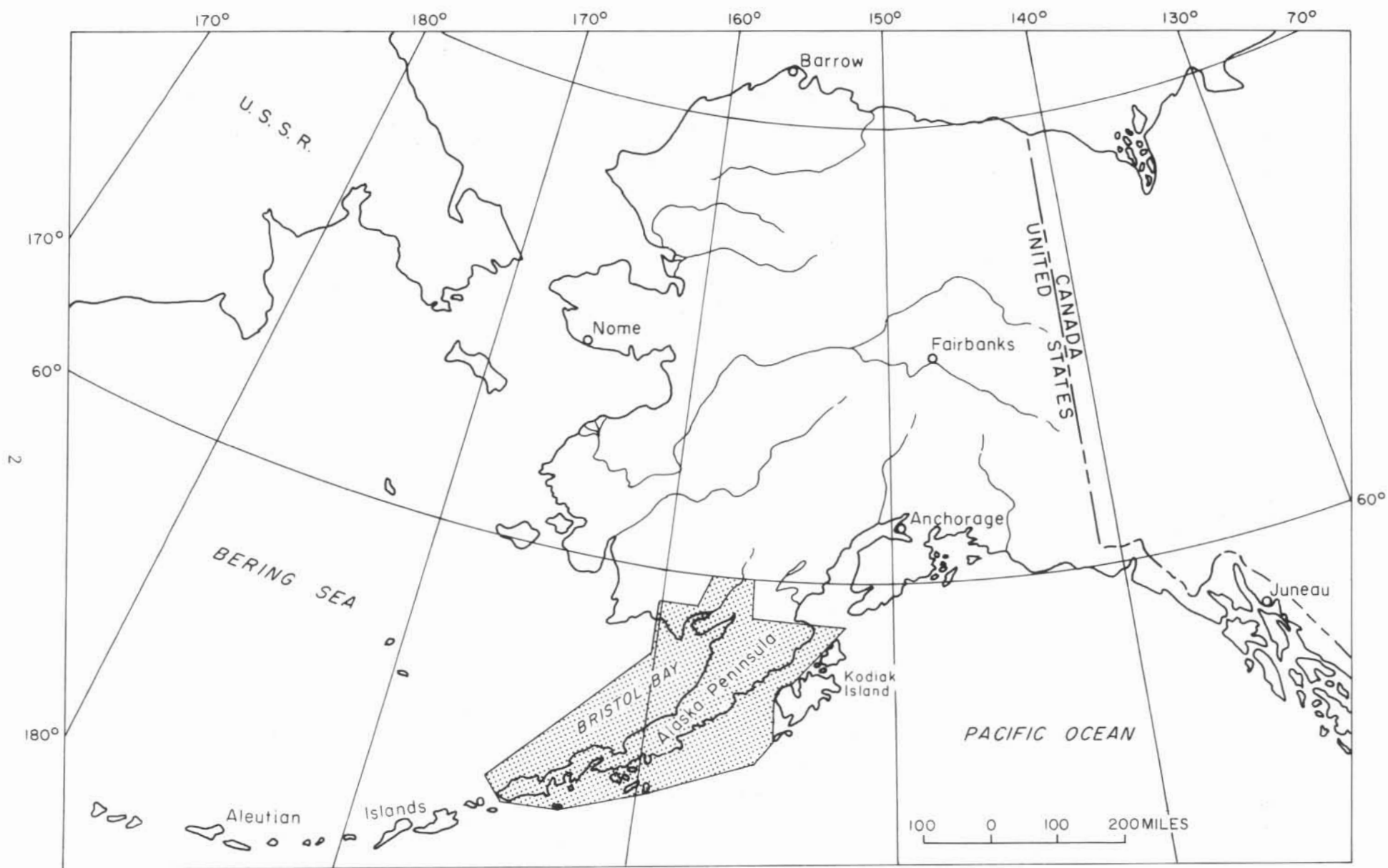


FIGURE 1. INDEX MAP OF ALASKA SHOWING THE ALASKA PENINSULA AND ADJACENT AREAS

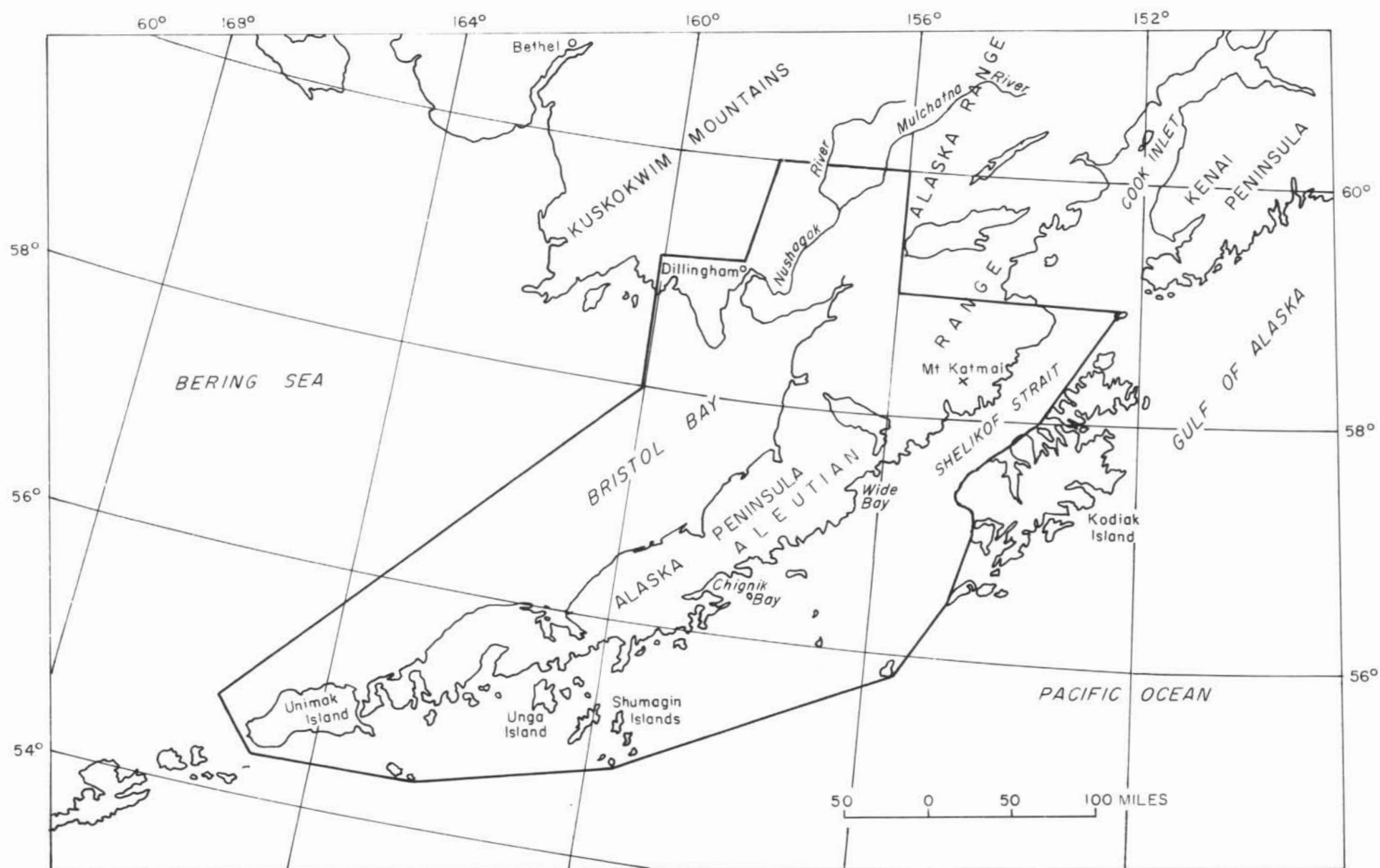


FIGURE 2. INDEX MAP OF THE ALASKA PENINSULA SHOWING PRINCIPAL PHYSIOGRAPHIC FEATURES IN RELATION TO THE AREA COVERED BY LITERATURE CITED

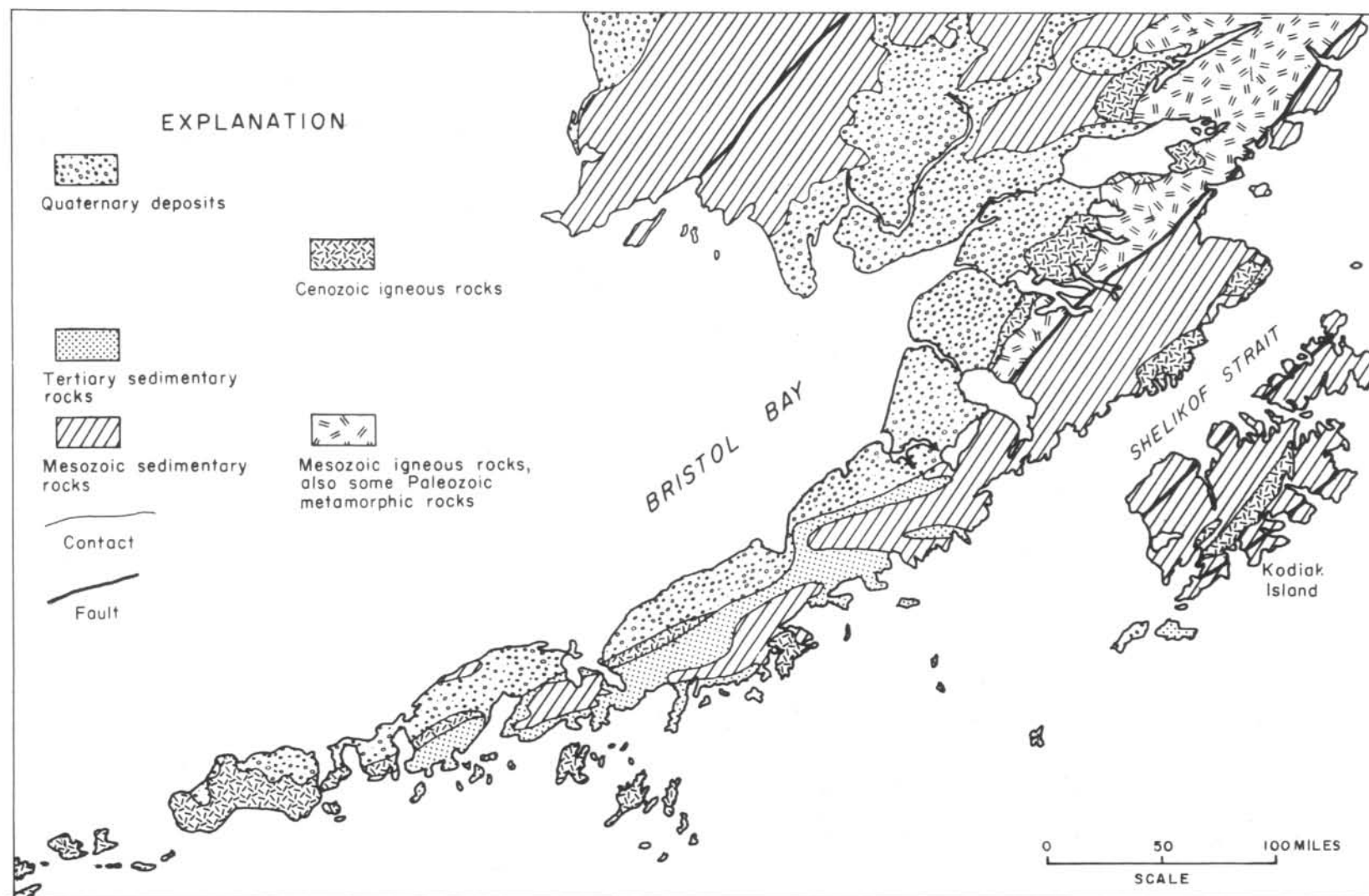


FIGURE 3. GENERALIZED GEOLOGIC MAP OF THE ALASKA PENINSULA AND ADJACENT AREAS

first subject mentioned. Thus, reports entitled "Stratigraphy and structure of--" are indexed under Stratigraphy, not Structural Geology. Although much effort went into checking the references with respect to geographical location, little effort went into evaluating the contents of the individual articles. Hence some articles that deal principally with a subject not expressly stated in the title are listed in the index under the subject specified by the title. For example, some geophysical reports could be listed equally well under Structural Geology, but only those whose title refers to structural geology are so listed. The same thing is true of closely related subjects such as Stratigraphy and Paleontology.

This compilation is one of a series prepared by the U.S. Geological Survey in support of investigations in Alaska. The compilers wish to acknowledge the special assistance of William G. Sanders, Ann H. Schwabecher, Anna M. Leon and Edward H. Cobb of the U.S. Geological Survey, Menlo Park, California, in locating little-known references.

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