

Geological Literature on the Cook Inlet Basin & Vicinity,

Alaska

SR 18

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FORWARD

The Cook Inlet Basin, cradle of the Alaskan petroleum industry, has received the great bulk of geologic investigation and resulting published reports of any area in the State. For many years there has been a need for a comprehensive bibliography of the geological literature on the area, which culminated in the compilation of this reference book by the most knowledgeable and experienced people on Alaskan geology--the Alaskan branch of the U. S. Geological Survey.

Under normal circumstances a bibliography such as this would be issued as an open file report of the Survey with formal publication following upon appropriate authorization by the Director. Because of the keen interest of all Americans today in Alaska's natural resources and the responsibility in conservation, development and management of these resources is that of the Alaska Department of Natural Resources, the Survey magnanimously extended the privilege to this Department to timely publish their work. Such a spirit of coordination and cooperation, manifest by the Survey's offer, is not only sincerely appreciated by those of us in the State Government but serves as factual evidence of the close Federal-State relationships in Alaska on matters of earth science.

Juneau, Alaska
December 1969

Thomas E. Kelly
Commissioner
Department of Natural Resources
State of Alaska

GEOLOGICAL LITERATURE ON THE COOK INLET
BASIN AND VICINITY, ALASKA

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Publication authorized by the Director, U.S. Geological Survey

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Geological Literature on the Cook Inlet

Basin and vicinity, Alaska

By

J. C. Maher and W. M. Trollman

Introduction

This compilation includes most of the geological literature on the Cook Inlet basin and adjacent highlands in southern Alaska (see figure 1) published prior to May 1, 1969. Cook Inlet basin is defined by the extent of Tertiary and Quaternary outcrops as shown on figure 2. It is approximately 200 miles long and 45 miles wide in maximum dimensions and encompasses an area of about 9,240 square miles. The part south of Mount Susitna is mainly a graben containing Tertiary and Quaternary deposits as much as three miles thick. Similar deposits in the northern part are generally less than a mile thick. The volume of Tertiary and Quaternary deposits in the Cook Inlet basin probably is in the range of 10,000 to 20,000 cubic miles.

The adjacent highlands include the Aleutian Range, the Alaska Range, Talkeetna Mountains, and the Kenai Range as shown on figure 2. These highlands have important relationships to the structural origin and depositional history of Cook Inlet basin. Therefore the pertinent geological literature on these highlands has been included.

In the compilation of these references, special effort has gone into the search for literature pertaining to petroleum geology, which includes the closely associated fields of stratigraphy, paleontology, structure, and geophysics. In addition, all available articles on petroleum exploration, development, and production in the Cook Inlet basin published in petroleum trade journals have been sought. The literature on mineral-deposit geology is well represented, but no attempt has been made to include professional and trade-journal articles dealing primarily with mining operations in the adjacent highlands.

This compilation has been prepared by the U. S. Geological Survey in support of organic fuels investigations in Alaska. The compilers wish to acknowledge the special assistance rendered by William G. Sanders, Nancy L. Blair, Edward H. Cobb, and Oscar J. Ferrians of the U. S. Geological Survey, Menlo Park, Calif., in locating little-known references.

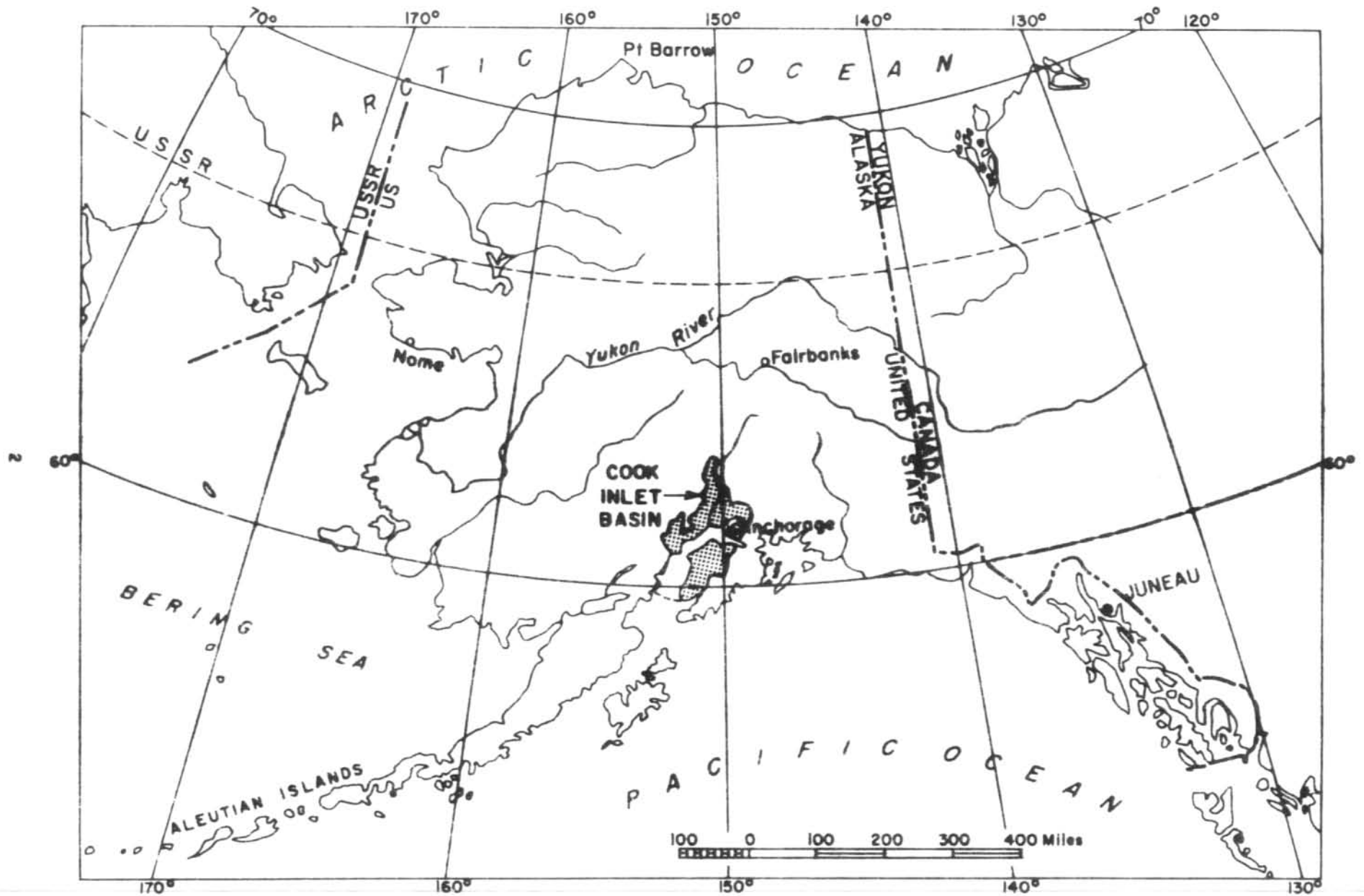


FIGURE I. INDEX MAP OF ALASKA SHOWING LOCATION OF COOK INLET BASIN

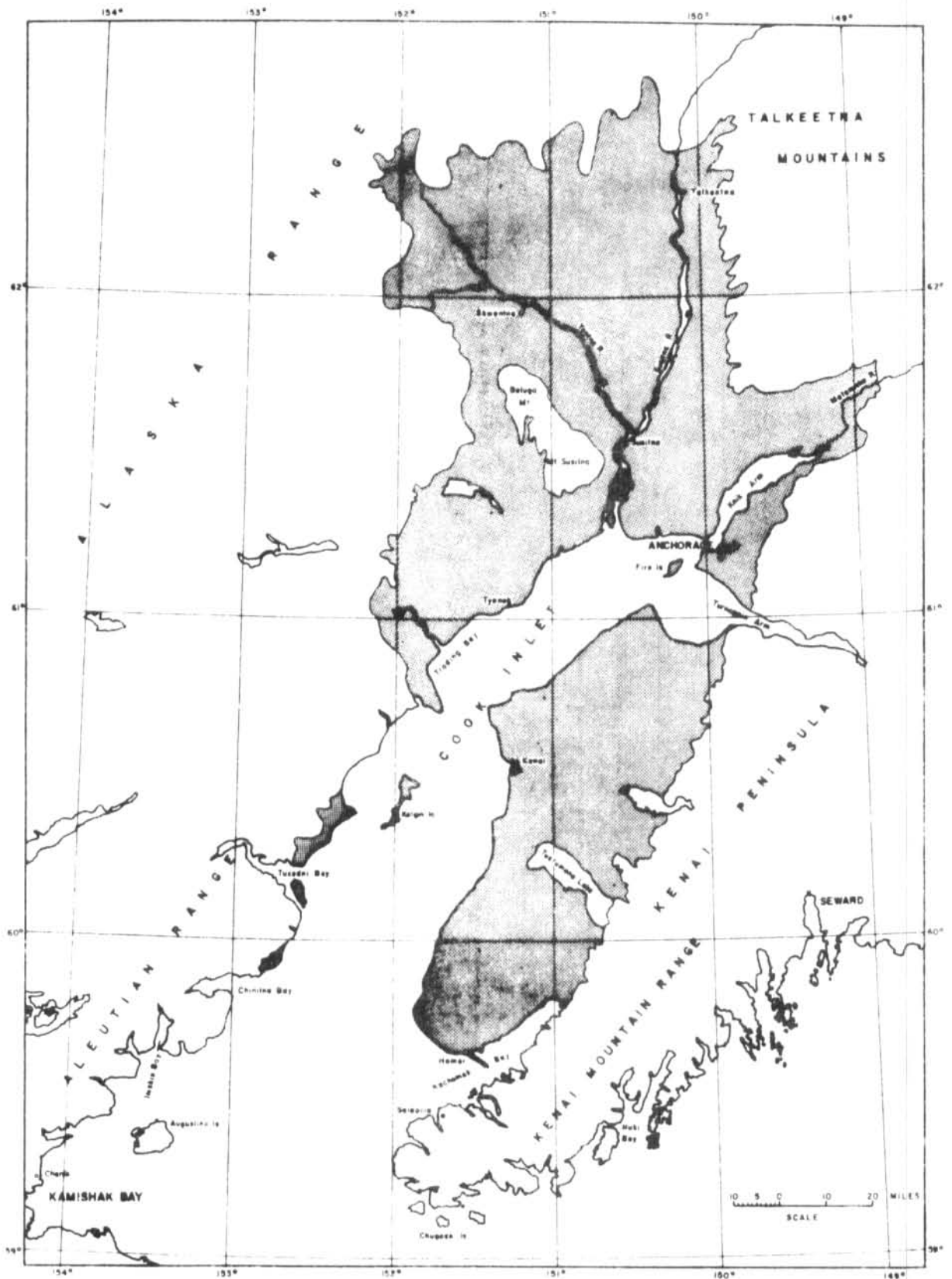


FIGURE 2. INDEX MAP OF COOK INLET BASIN AND VICINITY, ALASKA
 PATTERN SHOWS AREA OF TERTIARY AND QUATERNARY OUTCROPS

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