

**U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY**

**Marine Geology of the Bering Sea: Selected Bibliography of
U.S. Geological Survey Studies (1970-present)**

By

Kevin R. Evans¹

Open File Report 96-655

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1345 Middlefield Rd., MS 999, Menlo Park, CA 94025

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Evans, Kevin R.¹

¹U.S. Geological Survey, Marine and Coastal Geologic Surveys, 345 Middlefield Road, MS 999, Menlo Park, California 94025

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INTRODUCTION

THE BERING SEA covers more than 2,269,000 km² (876,000 mi²) and reaches depths of nearly 4000 m (13,000 ft.). Roughly two-thirds of it lies within the territorial boundaries of the United States. The U.S. Geological Survey has actively explored the geologic framework and sedimentology of the three principal physiographic provinces of the Bering Sea--Aleutian Arc, Aleutian Basin, and Bering Shelf (Figure 1). Studies have focused primarily on surface sediment distribution (Gardner et al., 1980), sedimentation processes (Karl et al., 1985), physical features of the seafloor (Carlson and Karl, 1988), environmental hazards (Carlson et al., 1991), climate change (Gardner et al., 1982), as well as geologic and structural framework of the Bering Sea crust (Cooper et al., 1987a,b) and tectonic evolution of the Bering Shelf (Marlow et al., 1994) and Aleutian Arc (Scholl et al., 1987). Many of these investigations are published in USGS literature or in national and international journals as listed in the attached bibliography.

The Western Marine and Coastal Geologic Surveys Team continues to pursue scientific programs in the region to address the concerns of state and federal agencies. The purpose of this report is to list various publications that USGS personnel have been involved with in the past 25 years. It shows not only the past accomplishments in the region but also our capabilities and interests. References are organized by physiographic province where applicable or are placed within the general location section if they are germane to more than one area. Overview, summary, or seminal references are indicated by bold typeface.

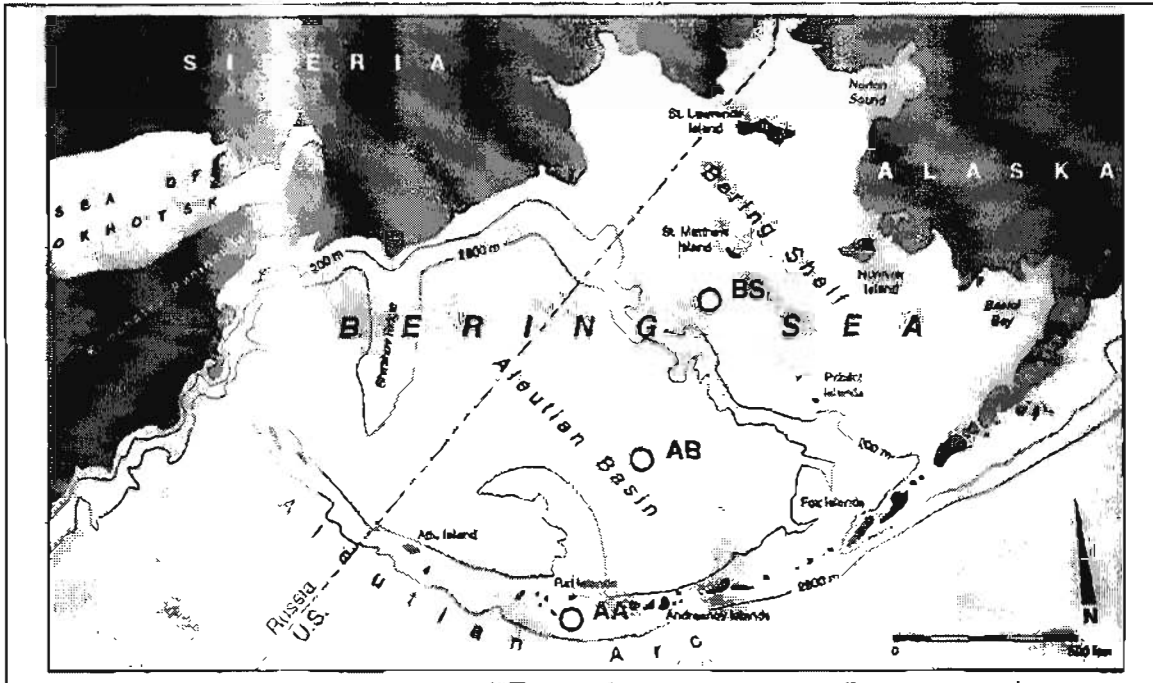


Figure 1. Locations of principal geographic features in the Bering Sea: AA, Aleutian Arc; AB, Aleutian Basin; and BS, Bering Shelf.

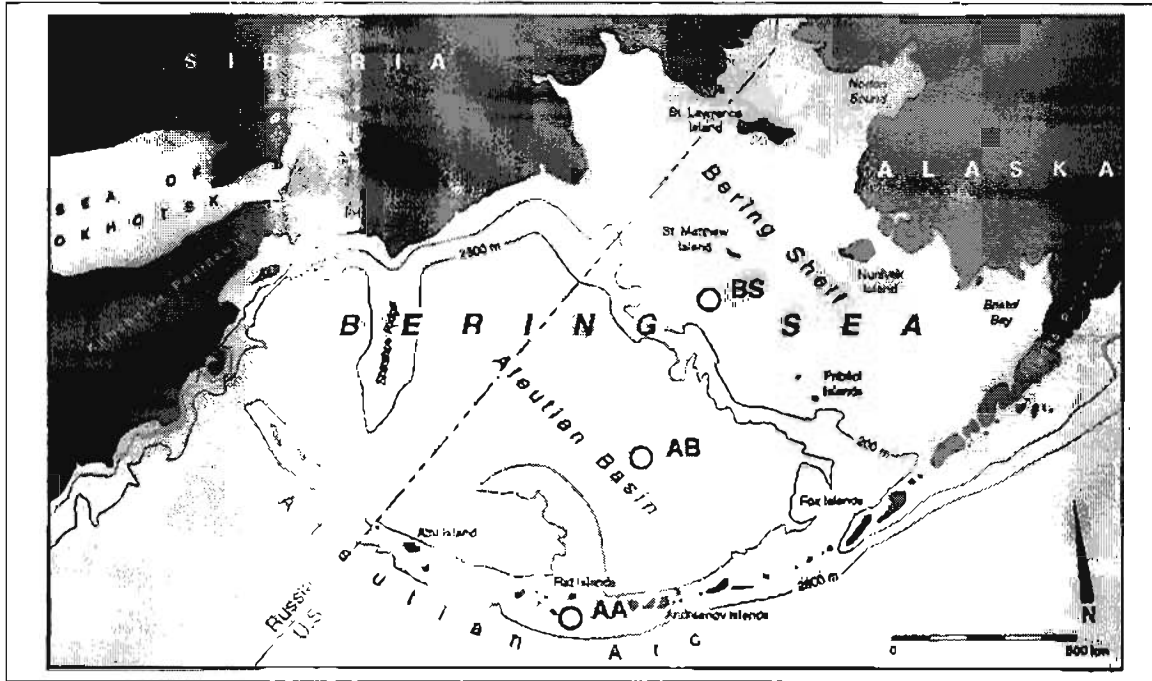


Figure 1. Locations of principal geographic features in the Bering Sea: AA, Aleutian Arc; AB, Aleutian Basin; and BS, Bering Shelf.

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