

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

Offshore Geologic Framework and Sedimentology of the Gulf of Alaska:  
Selected Bibliography of U.S. Geological Survey Studies (1970-Present)

By

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Open File Report 97-26

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# Offshore Geologic Framework and Sedimentology of the Gulf of Alaska: Selected Bibliography of U.S. Geological Survey Studies (1970-Present)

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### INTRODUCTION

THE U.S. GEOLOGICAL SURVEY has a long history of exploring marine geology in the Gulf of Alaska (Figure 1). The thrust of USGS research has varied from assessing offshore petroleum and mineral resource potential (e.g. Fisher 1980) to evaluating risks of geological hazards (e.g. Hampton 1983) to exploring seafloor morphology (e.g. Carlson et al. 1982), sediment transport (e.g. Bouma et al. 1977), and depositional processes (e.g. Hampton and Bouma 1977) to relating sea-floor features to dynamic tectonic processes (e.g. Bruns 1983; Plafker 1987) to deep crustal studies (e.g. Brocher et al. 1994). Many investigations have been published under the auspices of the U. S. Geological Survey and in national and international geologic journals.

Marine and Coastal Geologic Surveys Team (MCS) continues to develop programs in this region, addressing state and agency concerns as well as responding to public and scientific issues. For example, in the near term, the MCS National Plan addresses the need for comprehensive geologic information on the nation's marine biologic habitats that will insure their wise and effective use. The purpose of this report is to list and highlight selected publications on Gulf of Alaska geology that provide background regarding USGS interests, capabilities, and past accomplishments in scientific research.

MCS has accumulated a wealth of knowledge founded on field efforts and research cruises to the Gulf over the last 30 years (Figure 2). The knowledge derived from these field efforts is given in the references on the following pages. References are organized by geographic region within the Gulf of Alaska (see Figure 1 for locations). Overview, summary, and seminal references are indicated by bold typeface. References that pertain to several geographic areas are listed in a separate section (see *General Locations in the Gulf of Alaska*, page 14).

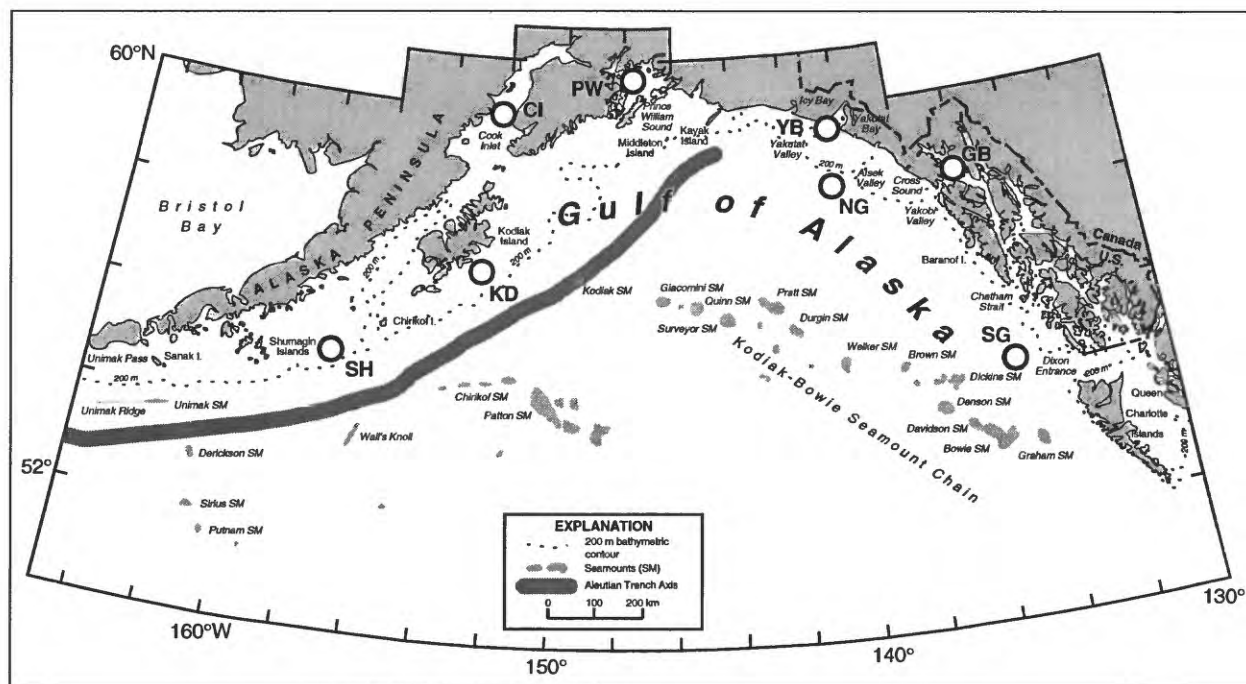


Figure 1. Location of principal geographic features in the Gulf of Alaska: CI, Cook Inlet; GB, Glacier Bay; KD, Kodiak Shelf; NG, Northern Gulf of Alaska; PW, Prince William Sound; SG, Southeastern Gulf of Alaska; SH, Shumagin Shelf; and YB, Yakutat Bay.

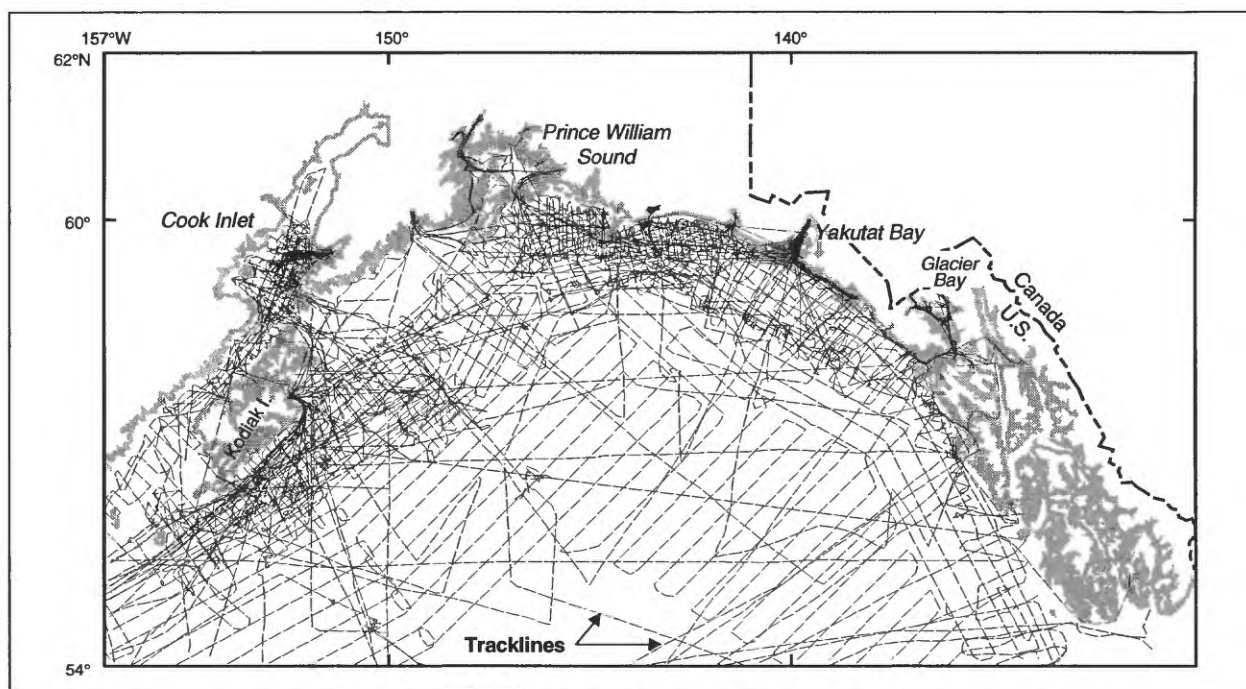


Figure 2. Location of navigational tracklines of U. S. Geological Survey and cooperative cruises from 1970 to 1996 indicated by broken lines. Coastline shown in gray.

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(KEYED TO FIGURE 1)

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