

United States
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Geological Survey

MULTICHANNEL SEISMIC-REFLECTION PROFILES COLLECTED
IN 1976 IN THE SOUTHERN BERING SEA SHELF

by

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U. S. Geological Survey

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During 1976 the U. S. Geological Survey collected 1900 km of 24 channel seismic-reflection data from the southern Bering Sea shelf between the Alaska Peninsula and the Pribilof Islands (St. George Island, Fig. 1). The data were collected on the R/V S. P. LEE using a sound source of five air guns totalling 1, 326 in³. The recording equipment consisted of a 24-channel streamer, 2400 meters long with a group interval of 100 m, and a GUS (Global Universal Science) Model 4200 digital recording system. Shot records were sampled and recorded at a 2 millisecond rate, and later processed at a 4 millisecond rate. Navigational control of the survey was by satellite fixes supplemented by Loran C. (Rho-Rho) and doppler-sonar bottom-track navigation.

The seismic-reflection profiles vary in record in length depending upon geologic structure. The first 6 seconds of the shot records, where available, have been edited, stacked, deconvolved, filtered, and displayed in a variable area wiggle trace format. Two short lines, #10 and 11, have not been processed, A trackline chart showing shotpoint navigation accompanies the seismic reflection data. The data may be examined at USGS office, Room B-164, Deer Creek Facility, 345 Middlefield Road, Menlo Park, CA [contact Mr. Tom Chase at (415) 856-7132]. Copies of the data are available through the National Geophysical and Solar-Terrestrial Data Ctr., NOAA, Boulder, CO 80302. Telephone (303) 599-1000, ext. 6542.

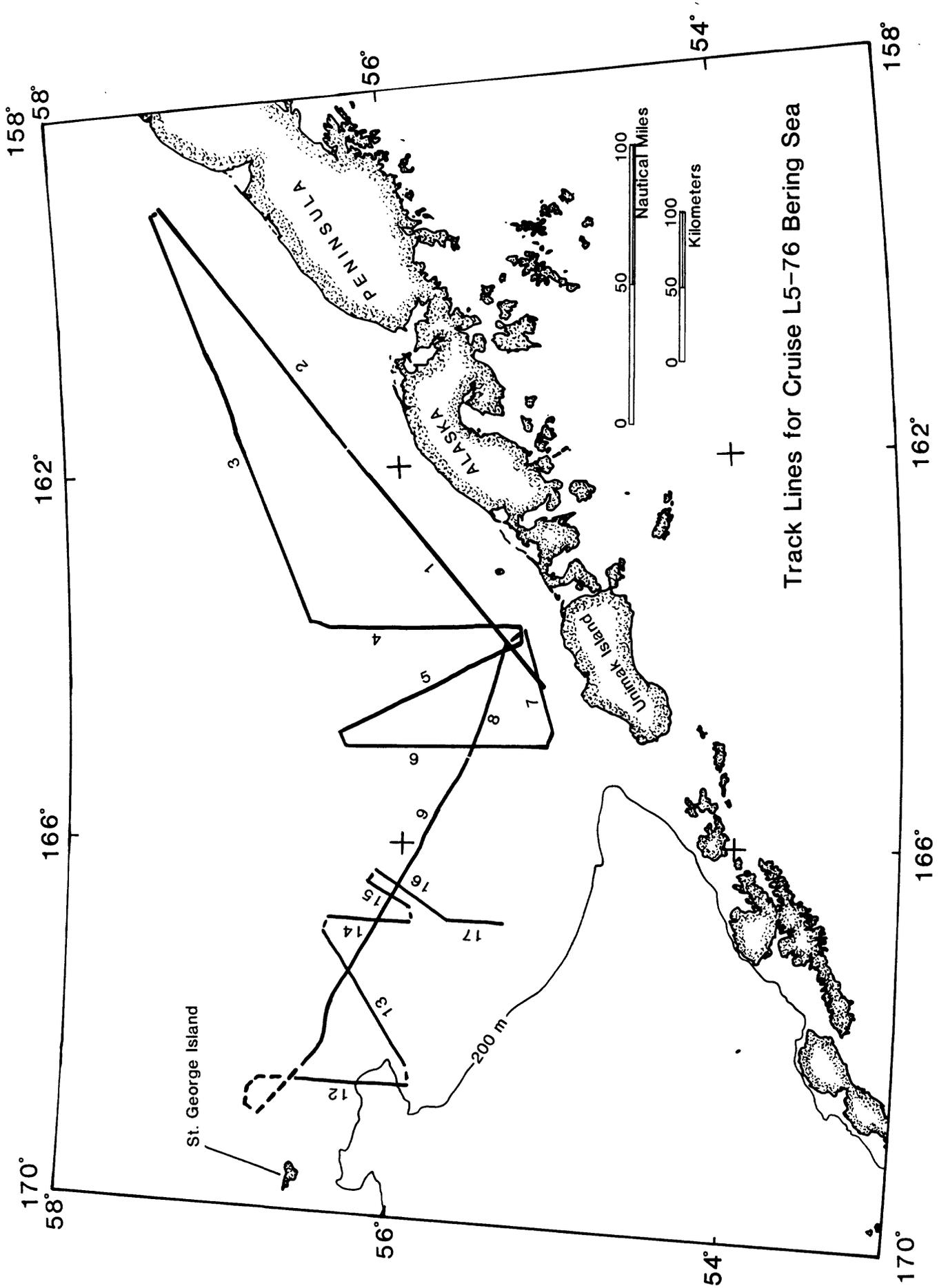


Fig. 1