

United States
Department of the Interior
Geological Survey

MULTICHANNEL SEISMIC-REFLECTION PROFILES COLLECTED
IN 1980 IN THE NORTHERN BERING SEA

by

Michael S. Marlow, Alan K. Cooper, Gregory L. Smith, and Thomas E. Chase

U.S. Geological Survey
OPEN FILE REPORT
82-1090

This report is preliminary and has not
been reviewed for conformity with Geological Survey
editorial standards and stratigraphic nomenclature

Any use of trade names
is for descriptive purposes
only and does not constitute
endorsement by the U.S. Geological Survey

MULTICHANNEL SEISMIC-REFLECTION PROFILES COLLECTED
IN 1980 IN THE NORTHERN BERING SEA

by

Michael S. Marlow, Alan K. Cooper, Gregory L. Smith, and Thomas E. Chase

During 1980 (cruise L6-80-BS) the U. S. Geological Survey collected 1800 km of 24-fold seismic-reflection data in the Gulf of Anadyr and across Navarin basin (Fig. 1). The profiles were collected on the R/V S. P. LEE using a sound source of five air guns totalling 1,326 in³. The recording equipment consists 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 recorded at a 2 millisecond sample rate, and later processed at a 4 millisecond rate. Navigational control of the survey was by satellite fixes integrated with Loran C (Rho-Rho) and doppler-sonar bottom-track navigation.

The seismic-reflection records vary from 10 to 12 seconds in length depending upon water depth and geologic structure. The first 10 seconds of the shot records were edited, stacked, deconvolved, filtered, and displayed on an electrostatic plot.

Copies of the data are available through the National Geophysical Data Center, NOAA/EDIS/NGDC, Code D64, 325 Broadway, Boulder, CO 80303. Telephone (303) 497-6338.

