

Final Report: N00014-90-J-1842

July 14, 1992

FINAL REPORT

Lamont-Doherty Geological Observatory of Columbia University
Palisades, N.Y. 10964

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RE: N00014-90-J-1842

TITLE: "DATA ACQUISITION/REDUCTION, M/V BERNIER: SUPPORT
OF SEA MARC II CRUISE SOUTHERN NORWEGIAN SEA SURVEYS
PARTS II & II AEGIR RIDGE STUDY AND SEA MARC II CALIBRATION"

Lamont-Doherty Geological Observatory provided ship and geophysical systems support to the study of the Southern Norwegian Sea in collaboration with investigators from Hawaii Institute of Geophysics and the Naval Research Laboratory. The Observatory provided the Research Vessel MAURICE EWING (ex-BERNIER) and technical staff to support geophysical equipment which included magnetics, gravity, single channel seismics, 3.5 kHz sub-bottom profiler and multi-beam bathymetry for a three-leg survey sequence. In addition, development work on backscatter data collection from the multibeam mapping system was completed during the second and third legs. The L-DGO technical staff assisted in support activities for the HIG-operated SeaMARC II towed side-scan sonar mapping system.

The R/V MAURICE EWING (ex-BERNIER) departed from Newark, New Jersey on July 06, 1990 for the first leg of the program, a SeaMARC II calibration and transit to Reykjavik, Iceland. Following a port call at Reykjavik, Dr. Henry Fleming of NRL, as chief scientist, conducted the first 28 day survey of the Aegir Ridge and adjacent basin and margins. Following a four day port stop in Bergen, Norway, the second 28 day survey leg, with Dan Chayes of NRL as chief scientist, returned to complete the geophysical survey with a final return to Bergen on 23 September, 1990.

The program was successfully supported by the L-DGO technical staff and research facilities as proposed in the Statement of Work. Total ship use days included 70 days at sea with 9 mobilization/demobilization port days.

Approval For

by

Date

Signature

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Statement A per telecon Joseph Kravitz
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