Faculty and Researchers | Faculty and Researchers' Publications

1980

The Seamount as a Diffracting Body

Medwin, H.; Spaulding, R.

THE SEAMOUNT AS A DIFFRACTING BODY

by

H. Medwin and R. Spaulding
U.S. Naval Postgraduate School
Monterey, Ca., U.S.A.

ABSTRACT

Diffraction over a seamount has been studied by construction of a three-dimensional physical model of Dickens seamount. When laboratory diffraction and scattering data for air are scaled to the ocean and added to ray refraction losses at sea there is excellent agreement with ocean experiments reported by Ebbeson et al <J. Acoust. Soc. Am. $\underline{64}$, S76 (1978)>.

SACLANTCEN

CONFERENCE PROCEEDINGS No. 27 ✓

NORTH ATLANTIC TREATY ORGANIZATION

SACLANT ASW Research Centre ✓
Viale San Bartolomeo 400, I-19026 San Bartolomeo (SP), Italy.

tel: $\frac{\text{national} \qquad \text{0187 560940}}{\text{international} + 39\ 187\ 560940}$

BOTTOM-INTERACTING OCEAN ACOUSTICS

Proceedings of a Conference held at SACLANTCEN
on 9-13 June 1980

Organized by
WILLIAM A. KUPERMAN and FINN B. JENSEN

15 July 1980

This document has been prepared from text provided by each author.
The opinions expressed are those of the authors and are not neces-
sarily those of the SACLANT ASW Research Centre.