UNITED STATES BOARD ON GEOGRAPHIC NAMES

UNDERSEA FEATURE NAME PROPOSAL

NAME PROPOSED: Mikura Seamount
LOCATION: Pacific Ocean, east of Japan
Ocean or Sea:

Coordinates:
point feature or center point:.....Lat.33°43.0' N Long.139° 24.5' E

DESCRIPTION:
Feature type:Seamount Size and shape: Volcanic cone
Depth (max. and min.): 480 m / 1700 m Steepness, etc.:
Associated features:

CHART OR MAP REFERENCE:
Name and feature shown on:
Feature shown but not named on:

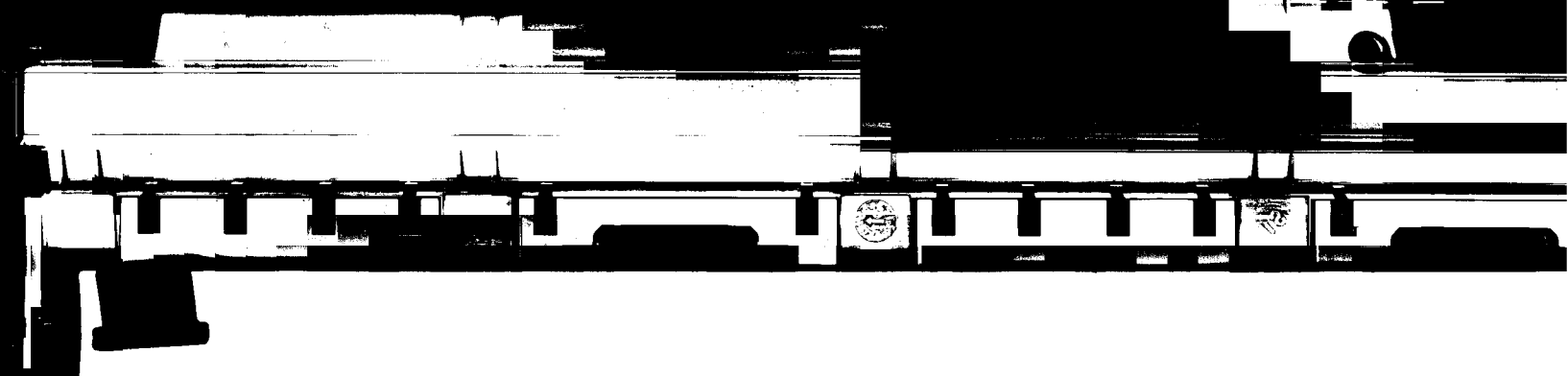
REASON FOR CHOICE OF NAME:

DISCOVERY FACTS:
Date: March/April 1991 Discoverer (individual, ship): R/V Meiyo
Sounding equipment used:SEaBeam 2000 Navigation type: GPS
Estimated horizontal accuracy: ± 0.1 n.m./km Track spacing, crossings:

SUPPORTING MATERIALS: Please enclose references, reprints profiles, maps, etc.

SUBMITTED BY: N Z Cherkis for JMSA - Japan Coast Guard
Organization and address:

Please mail to:
Trent Palmer, ~~Executive~~ Secretary
Advisory Committee on Undersea Features-USBGN
National Geospatial-Intelligence Agency (NGA)
4600 Sangamore Road
Bethesda MD 20816-5003
USA



UJNR/SBS/20-JT3
Tokyo 1991

# New Bathymetric Surveying and Processing System based on SEA BEAM 2000

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## Introduction

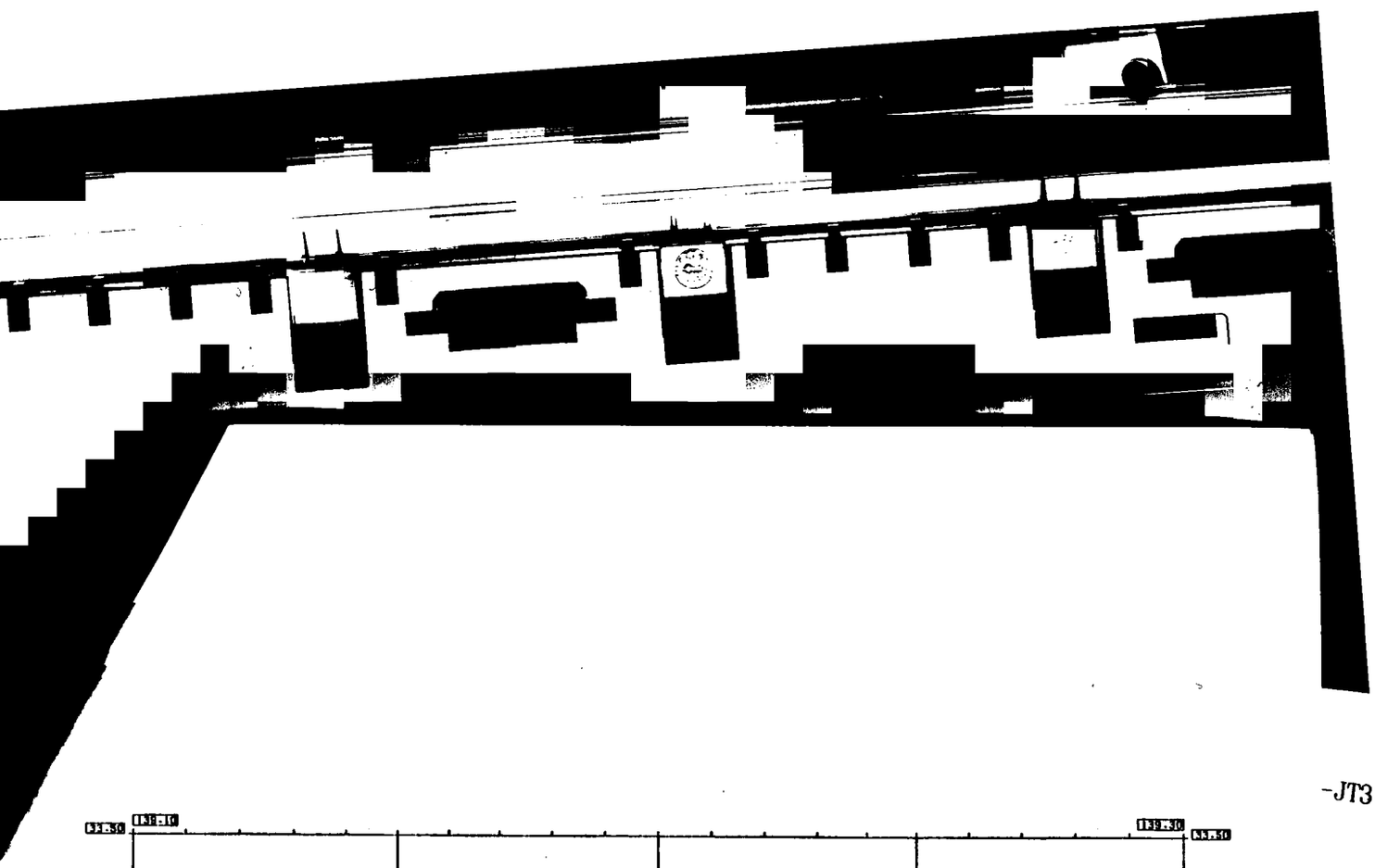
The Hydrographic Department, Japan Maritime Safety Agency has installed a most advanced bathymetric surveying system, called SEA BEAM 2000 on the newly built survey vessel Meiyo in October 1990, with the close cooperation of the SeaBeam Instruments Inc.

As the SEA BEAM 2000 was a most modern system developed by the SeaBeam Instruments Inc., it took a few months to finalize the adjustment step of the instrumentation in the field at sea, before actual survey operations was stated with system. The practical survey activities using this newest system have been carried out in the sea areas off Boso-peninsula in March 1991 as the beginning, off the coastline of Miyagi- and Fukushima-pref. in April 1991 and around a seamount Mikura-kaizan in August 1991.

This paper will present functions of the system incorporated in the SEA BEAM 2000, which were confirmed through these survey operations. Also, the presentation will include a new integrated navigation system and a new data processing system which we contributed at the stage of the designing and developing proceeded together with the project to build a new Meiyo as replacement of the old Meiyo.

## 1. SEA BEAM 2000 Surveying System

To efficiently carry out survey operations with the SEA BEAM 2000, efforts were placed on production of a blue-print for a integrated navigation system based on a designing concept consistent with that of the SEA BEAM 2000. The resulting system was installed on board the new vessel Meiyo.



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