

THE HYDROGRAPHIC REVIEW

The Directing Committee of the INTERNATIONAL HYDROGRAPHIC BUREAU will be pleased to consider articles for insertion in the *Hydrographic Review*. Such articles should be addressed to

INTERNATIONAL HYDROGRAPHIC BUREAU

Quai de Plaisance

MONTE-CARLO

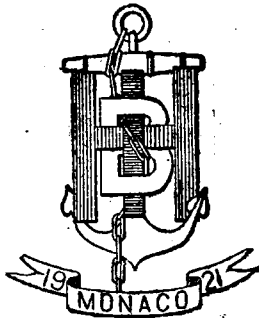
(Principality of Monaco).

and should reach the Bureau not later than 1st February or 1st August for the May or November numbers respectively.

The Directing Committee is not responsible for statements made or opinions expressed in articles or papers published in this Review, which are written by Authors who are not members of the Directing Committee or of the Staff of the International Hydrographic Bureau.

THE
**HYDROGRAPHIC
REVIEW**

Vol. XXII



Vol. XXII

(No 40 OF THE SERIES)

PUBLISHED BY

THE

INTERNATIONAL HYDROGRAPHIC BUREAU

Quai de Plaisance, Monte-Carlo

MONACO

PRINCIPALITY



1945

IMPRIMERIE MONEGASQUE
MONTE-CARLO

INTERNATIONAL HYDROGRAPHIC BUREAU

LIST OF STATES WHICH ARE MEMBERS OF THE BUREAU

ARGENTINA

BRAZIL

BRITISH EMPIRE

UNITED KINGDOM

AUSTRALIA

CHINA

DENMARK

EGYPT

FRANCE

MONACO

POLAND

PORTUGAL

SIAM

SPAIN

SWEDEN

UNITED STATES OF AMERICA

URUGUAY

DIRECTING COMMITTEE

President : Vice-Admiral J.D. NARES, D.S.O., Royal British Navy (retired).

Directors { — Ingénieur Hydrographe Général en retraite (retired)
— P. DE VANSSAY DE BLAVOUS, Marine Française.
— Rear-Admiral LAMAR R. LEAHY, U. S. Navy (retired).

TABLE OF CONTENTS

Obituary :— Rear Admiral Johan Marie PHAFF (1857-1945) (H. B.).....	6
Uniformity in Buoyage (J. D. NARES and H. BENCKER).....	8
Principle of Radio Electric Detection (Radar) (H. BENCKER).....	14
Radar — An Aid to Piloting (U.S. Naval Hydrographic Office).....	29
Refraction (J.E.R. ROSS)	35
Standardisation of Time and Accurate determination of exact time (H. BENCKER).....	41
Altitude Position Lines on Charts According to Garcia (H.C. FREISSLEBEN) (H. B.)....	52
Chart of Equal Azimut (H. MAURER).....	59
Cartography on Double Projection Orthometric Charts (E. HERRERA).....	65
Grid of Position and Great Circle Charts by Wireless (A. WEDEMEYER).....	67
Bearings Card and Position Charts by Radiogoniometry (W. IMMLER) (P. V.).....	69
Azimuth Tables, Charts and Diagrams for Azimuth Determination (A. WEDEMEYER and K. SCHÜTTE) (P. V.)	71
A Problem of Submarine Morphology : The Great Continental Talus Canyons (A. PER- PILLOU) (P. V.)	75
Ergebnisse der Strommessungen und der Ozeanographischen (O. v. SCHUBERT) (P. V.)..	78
Bases of a Sea Current Planisphere (G. SCHOTT) (P. V.).....	85
Turbulence — An Example taken from a Study of the Sea (F. MODEL) (P. V.).....	87
The Nardin Chronometer	88
Bulletin Géodésique (P. V.)	89
