

**THE
INTERNATIONAL HYDROGRAPHIC REVIEW**

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

INTERNATIONAL HYDROGRAPHIC BUREAU

Quai des Etats-Unis

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
INTERNATIONAL
HYDROGRAPHIC
REVIEW

Vol. XXVII

N° 2



(N° 48 OF THE SERIES)

PUBLISHED BY

THE

INTERNATIONAL HYDROGRAPHIC BUREAU

Quai des Etats-Unis, Monte-Carlo

MONACO

PRINCIPALITY



NOVEMBER 1950

IMPRIMERIE MONEGASQUE

MONTE-CARLO

INTERNATIONAL HYDROGRAPHIC BUREAU

LIST OF STATES WHICH ARE MEMBERS OF THE BUREAU

ARGENTINA	MONACO
BRAZIL	NETHERLANDS
BRITISH EMPIRE	NORWAY
UNITED KINGDOM	POLAND
AUSTRALIA	PORTUGAL
NEW-ZEALAND	SPAIN
CHINA	SWEDEN
CUBA	THAILAND
DENMARK	TURKEY
EGYPT	UNITED STATES OF AMERICA
FRANCE	URUGUAY
GREECE	YUGOSLAVIA
ITALY	
JAPAN	

DIRECTING COMMITTEE

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

Director : Rear-Admiral C.L. NICHOLS, U.S.N., (retired).

Secretary-General :

Capitaine de Vaisseau de réserve H. BENCKER, Marine Française.

TABLE OF CONTENTS

	Pages
OBITUARY NOTICES :	
Admiral Sir Mostyn FIELD (1855-1950).....	6
Commodore H. O. RAVN (1868-1949).....	8
Professor Martin KNUDSEN (1871-1949)	9
The Decca Hydrographic Survey Chain in Sweden.....	11
A Memorandum on the Organization of the Hydrographic Department, Admiralty.	12
Development of Hydrographic Work in Siam from the beginning up to the present	16
The Danish "Galathea" Expedition (1950-1952) (K.H. SEEHUSEN).....	17
Discovery Reports	20
Radar and Radar Charts (Foreword to) (Sir Guy WYATT).....	21
Radar and Charts (A Discussion)	23
Geometric Properties of Position Lines in Hyperbolic Navigation and their Layout on the Reference Ellipsoid (S. BALLARIN).....	31
Scam 419 Sounder	51
Sonic Soundings	53
Regulations prescribed by the "Service Hydrographique" of the French Navy for the Carrying-out of Soundings to be used for further Improvement of the Chart.	58
New Geodetic Instruments (Askania Werke, Berlin).....	60
The Pfund Sky Compass (Alton B. MOODY).....	62
Recent Developments in Polar Navigation (Alton B. MOODY).....	67
Navigation in the Antarctic (Alton B. MOODY).....	70
Simplifying Astronomical Fix in Polar Areas (P. HUGON).....	75
On the Properties and Application of Modern Shipborne Direction Finders (Heinz GABLER)	86
Summary of Article "Shoran Study and Calibration" (Emerson E. JONES).....	92
Antarctic Tides (Marciano A. BALAY)	95
Survey of Low Water Mark (R.A. GARDINER).....	102
Determination of the Tide in the Offing from Tidal Stream Data (Henri LACOMBE)	104
Note on Diffraction of Swell in Perpendicular Incidence (Henri LACOMBE).....	122
Refractive Temperature (Arnold COURT)	138
Summary of Paper on Astronomical Navigation by means of Diagrams (Michel DUPUY)	147
HINTS TO HYDROGRAPHIC SURVEYORS :	
Innovations in Bar Checks	162
Obtaining a Fix with no Common Centre Object (Haven NICHOLS).....	165
Small Coordinatograph (Serge EMERY).....	167
Plastic Sheets in Map Reproduction (Samuel SACHS).....	168
Manuale di Idrografia (G. Romagna MANOIA) (H. B.).....	171
Survey Vessels of the United States Navy.....	174
International Hydrographic Bibliography.....	177
