

**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.

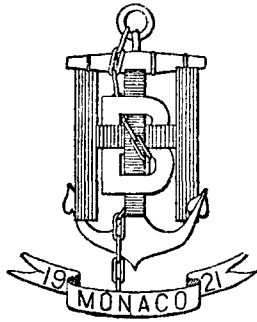
---

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. XXV

N° 2



(N° 44 OF THE SERIES)

PUBLISHED BY

THE

INTERNATIONAL HYDROGRAPHIC BUREAU

Quai des Etats-Unis, Monte-Carlo

MONACO

PRINCIPALITY



NOVEMBER 1948

---

IMPRIMERIE MONEGASQUE  
MONTE-CARLO

# INTERNATIONAL HYDROGRAPHIC BUREAU

---

## LIST OF STATES WHICH ARE MEMBERS OF THE BUREAU

---

ARGENTINA	ITALY
BRAZIL	MONACO
BRITISH EMPIRE	NORWAY
UNITED KINGDOM	POLAND
AUSTRALIA	PORTUGAL
NEW-ZEALAND	SIAM
CHINA	SPAIN
DENMARK	SWEDEN
EGYPT	UNITED STATES OF AMERICA
FRANCE	URUGUAY
GREECE	

---

## 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
Errata :—	
<i>International Hydrographic Review</i> , Vol. XXI, August 1944.....	7
<i>International Hydrographic Review</i> , Vol. XXV, No. 1, May 1948.....	8
Visits of President of Directing Committee to the French and Scandinavian Hydrographic Offices and Vessels (J. D. NARES).....	9
Coordination of Geographical Grids of the World.....	12
The International Scientific Congress held on occasion of the LXXVth Anniversary of the Italian Military Geographic Institute.....	14
Historical Note on the Hydrographic Service of the Royal Australian Navy.....	20
Activities of the Italian Hydrographic Office 1937-1948.....	23
The Netherlands Hydrographic Service.....	29
The German Hydrographic Institute (Dr. G. BÖHNECKE).....	31
Use of Radar and Radar Beacons in Hydrographic Surveying by U.S.S. <i>Tanner</i> (AGS-15) .....	35
Education in Photogrammetry :—	
Training in Photogrammetry by the U.S. Navy Hydrographic Office (S. SHERMAN) .....	39
Wanted Training in Photogrammetry (G. C. TEWINKEL).....	43
Specifications for Aerial Photography for U.S. Navy Hydrographic Office.....	45
Extracts from the book <i>Specifications for Field Inspection Survey</i> .....	55
The Fairchild Camera Transit.....	59
Map Making (W. C. CRUMP).....	63
Border Scale Subdividing Device (Hydrographic Office, U.S. Navy).....	67
I.H.B. Uniform Policy for Handling Geographic Names (I.H.B. Circular-Letter No. 16-H of 18th September 1948).....	69
Studies of Refraction (Dr. FREIESLEBEN).....	77
Method of Using the Stars listed under "Additional Stars" in the <i>Nautical Almanac</i> (J. B. FEASTER).....	78
The K.E.K. Stereoscopic Plotter (KING, ELLIOT, KAIL) .....	79
The Santoni Stereocartograph, Model IV.....	87
Large Scale Plotting (D. A. COLLINS).....	93
The Marconi Magneto-Striction Echo-Sounder.....	96
Sextant Favé-Lepetit (Recording Type 107).....	102
Modified Astrolabe (G. B. PACELLA).....	106

	Pages
Experiments on Turbulence and Friction near the Bottom of the Sea (H. MOSBY)	109
The Applicability of Laplace's Differential Equations of the Tides (J. PROUDMAN)	112
The British Admiralty Tidal Prediction Form (HD-289 - June 1947).....	119
Deflectors and their Use in relation to Magnetic Compasses (G. N. HARVEY).....	125
Sea Deposits (J. LAUWERS).....	141
The Portuguese Surveying Vessel <i>Almirante-Lacerda</i> .....	145
Survey Vessels of the German Hydrographic Institute.....	146

---