

LIBRARY  
E099  
8  
UNIVERSITY OF TORONTO

# THE INTERNATIONAL HYDROGRAPHIC REVIEW



**INTERNATIONAL HYDROGRAPHIC BUREAU  
MONACO**

Vol. LI N. 2

(N. 95 OF THE SERIES)

JULY 1974



**THE  
INTERNATIONAL HYDROGRAPHIC REVIEW**

## FOREWORD

The *International Hydrographic Review* is published twice a year (January and July) in separate English and French editions.

The Editorial Committee welcomes original articles on hydrography, oceanography, cartography, photogrammetry, geodesy, navigation and allied subjects, radio aids, automation, new instruments, equipment and hydrographic vessels, as well as on the history and organization of hydrographic offices.

The latest date for receipt of manuscripts is :

— 1 August for January issue,

— 1 February, for the July issue

but earlier submission greatly facilitates the work of preparing translations.

Articles should be addressed to :

The Directing Committee  
International Hydrographic Bureau  
Avenue Président J.F. Kennedy  
MC MONTE-CARLO (Principality of Monaco)

Up to 50 reprints per article can be supplied free to the author(s). They must be ordered prior to publication, and may be in either language or a proportion in each. Further copies ordered are charged at cost price.

### Notes for contributors

Texts should be submitted in English or French (or both) though by special arrangement Spanish, Italian or German could be accepted for translation by the Bureau. The papers should be as concise as possible for maximum reader value, and an abstract of up to 150 words is desirable. Uncommon expressions or constructions should be avoided, since :

a) they hamper the production of a definitive translation in the Bureau;

b) a large proportion of readers are still necessarily reading the Review in a foreign language.

Any permission needed to incorporate material published elsewhere is the responsibility of authors, and the Editorial Committee will assume that such permission has been obtained.

Two copies of the article are required, typed in double spacing with adequate margins and on one side of the paper only. Authors should check manuscripts very carefully as the Bureau takes no responsibility for errors of fact or presentation.

Bibliographic references should be listed at the end of the article in the standard Harvard form. Footnotes should be kept to a minimum, and metric measures used throughout.

Illustrations, already numbered and titled, should be sent ready for reproduction by the offset method and for reduction to 13 × 20 cm, the effective size of a Review page. Positive or negative transparencies (repromats) are preferred.

A minimum of wording should appear on repromats (this causes problems in a two-language publication), explanations being confined to the legend beneath.

Photographs should be black and white glossy prints and be limited to those necessary for an understanding of the text.

Printers' proofs are normally corrected in the Bureau and are not returned to authors.

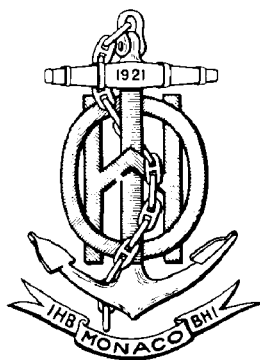
The Directing Committee and the Editor are not responsible for statements or opinions expressed by contributors in this Review.

M. R. HEALY  
Editor

# THE INTERNATIONAL HYDROGRAPHIC REVIEW

Vol. LI

No 2



(No 95 OF THE SERIES)

PUBLISHED BY

THE

**INTERNATIONAL HYDROGRAPHIC BUREAU**

**Avenue Président J. F. Kennedy, Monte-Carlo**

**MONACO**

PRINCIPALITY



**JULY 1974**

IMPRIMERIE LOUIS-JEAN

GAP

# INTERNATIONAL HYDROGRAPHIC ORGANIZATION

---

## MEMBERS OF THE IHO (\*)

---

ARAB REPUBLIC OF EGYPT	JAPAN
ARGENTINA	MONACO
AUSTRALIA	NETHERLANDS
BRAZIL	NEW ZEALAND
* BURMA	NORWAY
CANADA	PAKISTAN
CHILE	PHILIPPINES
CHINA	POLAND
* COLOMBIA	PORTUGAL
CUBA	REPUBLIC OF KOREA
DENMARK	REPUBLIC OF SOUTH AFRICA
DOMINICAN REPUBLIC	SINGAPORE
ECUADOR	SPAIN
FEDERAL REPUBLIC OF	SWEDEN
GERMANY	THAILAND
FINLAND	TURKEY
FRANCE	UNITED KINGDOM OF GREAT
GREECE	BRITAIN and NORTHERN
GUATEMALA	IRELAND
ICELAND	UNITED STATES OF
INDIA	AMERICA
INDONESIA	VENEZUELA
IRAN	YUGOSLAVIA
ITALY	* ZAIRE

(\*) Countries marked with an asterisk have not yet completed action to become Parties to the Convention on the IHO.

---

## INTERNATIONAL HYDROGRAPHIC BUREAU

---

### DIRECTING COMMITTEE

*President* : Rear Admiral G.S. RITCHIE, C.B., D.S.C., F.R.I.C.S., Royal British Navy (Ret.).

*Directors* : Rear Admiral J.C. TISON, Jr., USNOAA (Ret.).  
Commodore D.C. KAPOOR, AVSM, Indian Navy (Ret.).

### EDITOR

Lieut. Commander M.R. HEALY, F.I.L., M.N.I., A.C.I.S., Royal British Navy (Ret.).

## TABLE OF CONTENTS

---

— The centenary of the Netherlands Hydrographic Office (H.H. van WEELDE) .....	7
— The Matthews Tables — 35 years later (T. V. RYAN) .....	23
— The use of a computer for correcting ocean soundings (R. SHERWOOD) .....	37
— Ground cooperation for coast-lining with aerial photographs (T. SESHACHALAPATHI) .....	51
— Storm surges and unusual sea levels on Israel's Mediterranean coast (H. L. STRIEM) .....	59
— What's going on down there ? (W. H. KUMM) .....	71
— A digital method for star sights (S. FERRO) .....	83
— An examination of the stability of the Port of London Authority estuary Decca Hi-Fix chain (D. N. LANGHORNE, D. J. HOOPER) .....	89
— Abnormal waves on the south east coast of South Africa (J. K. MALLORY) .....	99
— The international charting principles behind Technical Resolution B 10.1 (U. K. HYDROGRAPHIC DEPARTMENT) .....	131
— An opinion on radio time signals (A. M. SINZI) .....	139
— Contract surveys (E. IRVING) .....	153
— Fifty years ago .....	159