

# THE INTERNATIONAL HYDROGRAPHIC REVIEW



INTERNATIONAL HYDROGRAPHIC BUREAU  
MONACO

Vol. LXVIII No. 2

No. 129 OF THE SERIES

JULY 1991





## RECENT PUBLICATIONS OF THE INTERNATIONAL HYDROGRAPHIC BUREAU

### PERIODICAL PUBLICATIONS

- PP-02**    **Index to the International Hydrographic Review 1985-1990**  
Bibliography of I.H. Review articles, from 1985 to 1990, by subjects and authors. (Bilingual).
- PP-03**    **International Hydrographic Bulletin**  
Contains topical news, reports the work undertaken by the I.H. Bureau and the world hydrographic community, covers recent developments in hydrographic instrumentation and training programmes, describes new survey vessels, etc. Charts and publications issued by Hydrographic Offices are listed each month, and there is a comprehensive monthly bibliography on hydrography and related subjects. (Bilingual).
- PP-05**    **IHO Yearbook 1991**  
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A bibliography of hydrographic texts and references suitable for use by instructors, in particular those teaching the subject matters included in the syllabi outlined in the IHO publication MP-005 'Standards of Competence for Hydrographic Surveyors'. (Bilingual).

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- SP-39**    **Precise Positioning Systems for Hydrographic Surveying (Series 1990)**  
Contains concise information and users' reports on systems specifically designed or suitable for positioning in hydrographic surveying. (English only).



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**SP-55     Status of Hydrographic Surveying and Nautical Charting Worldwide**

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**SP-57     IHO Transfer Standard for Hydrographic Digital Data**  
(Object Catalogue, DX-90, Digitizing Conventions)

Standard prepared by the IHO's Committee on the Exchange of Digital Data (CEDD), for the coding and exchange of hydrographic digital data, including that intended for ECDIS purpose. Produced in 3 Parts:

**PART A — Object Catalogue.**

Description of the feature coding scheme to be used.

**PART B — DX-90.**

Description of the actual format to be used.

**PART C — Digitizing (Transfer) Conventions.**

Description of the Conventions to be followed when converting analogue source data into a machine — readable form.

## BATHYMETRIC PUBLICATIONS

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A catalogue showing the limits of the 1/1M scale bathymetric plotting sheets, the areas of responsibility accepted by Member States, the addresses from which copies of plotting sheets can be obtained, and the limits of the GEBCO sheets. (Bilingual).

**BP-0003 Annex to Catalogue of Bathymetric Plotting Sheets, World Series.**

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### THE FOLLOWING INFORMATION PAPERS ARE AVAILABLE FREE FROM THE INTERNATIONAL HYDROGRAPHIC BUREAU

- No. 1 The International Hydrographic Organization.
- No. 2 FIG/IHO International Advisory Board on Standards of Competence for Hydrographic Surveyors.
- No. 3 Precise Positioning Systems for Hydrographic Surveying — IHO Special Publication No. 39 (series 1990).
- No. 4 IHO Tidal Constituent Bank.
- No. 6 Hydrographic Technical Assistance to Developing Countries.
- No. 7 Ocean Mapping Projects.
- No. 8 GEBCO.
- No. 9 International Chart Concept.
- No. 10 Standards for Electronic Chart Display and Information Systems (ECDIS).



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**MONACO, 4-15 May 1992**

A Symposium and Exhibition of Equipment of interest to all those involved in the collection, manipulation and display of hydrographic and navigational information will be held in Monaco, 11 to 15 May 1992, during the XIVth International Hydrographic Conference.

The theme of the Symposium, on 11 and 12 May, will be :

**" IHO FACES THE INFORMATION AGE "**

Although attendance at the business sessions of the Conference is restricted to official delegations and approved observers, attendance at the Symposium and the Exhibition is open to all those interested.

Further information on these events is available from :

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# Journal of Navigation

Editor: Professor J F Kemp

The **Journal of Navigation** publishes authoritative papers on every aspect of navigation - air, land, sea and space - and papers of every type - scientific, historical and narrative. It also features book reviews and keeps a 'record' of current Navigation work.

The Journal is published for the *Royal Institute of Navigation*. It is international in character and receives regular contributions from abroad. The readership includes members of the *Royal Institute of Navigation*, air and sea navigators, scientists and technicians concerned with navigation and an increasing number of yachtsmen. The Journal is widely circulated in government departments with navigational responsibilities and in shipping and aeronautical industries.

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Soviet Union's Glonass Satellite Navigation System **P Daly**

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A journal dedicated to promoting the free exchange of information within the hydrographic community and to advancing the technical and professional ability of hydrographers.

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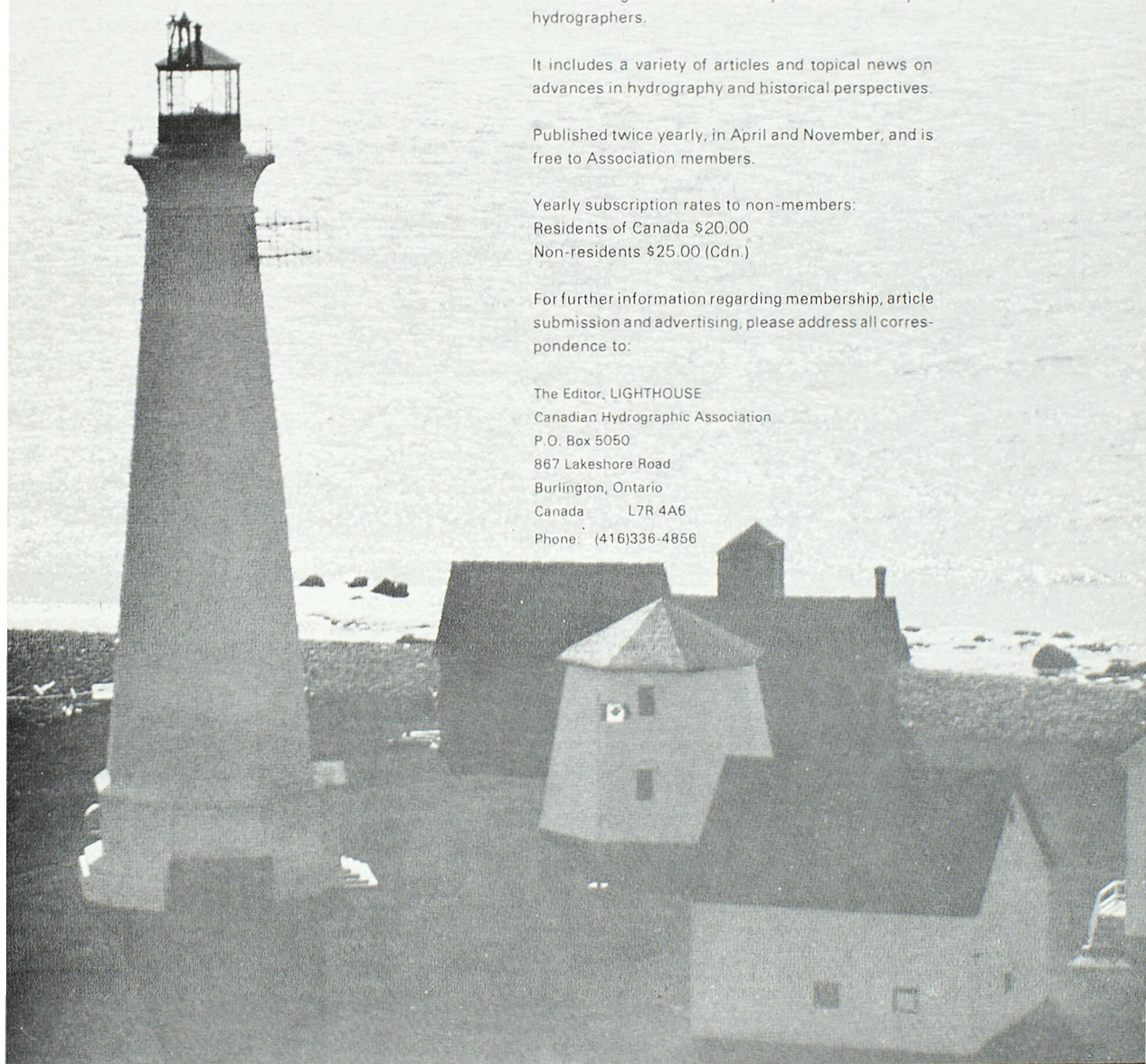
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# Geological Magazine

Editors: C. P. Hughes, I. N. McCave, N. H. Woodcock and M. J. Bickle,  
*Department of Earth Sciences, Cambridge*

**Geological Magazine**, established in 1864, is one of the oldest established and best known periodicals in the earth sciences. It covers the whole field of earth sciences and welcomes papers which, provided they are of scientific merit, are also controversial in nature. Short papers are encouraged.

## Features

The **Magazine** publishes articles, essay reviews, and correspondence, with numerous diagrams and maps. A regular feature of **Geological Magazine** is the book review section, which offers short reviews of recent books and essay reviews commenting on groups of books on related topics. In addition, each issue contains a useful checklist of publications received – books, new journals, reports and surveys, and journal articles of particular interest to readers.

## Format

A large format allows for high quality half-tone photographs and photomicrographs to appear within the text. Guest editors from as far afield as Australia have been invited to join the magazine. This adds to the magazine's new outlook by attracting papers from an even broader range of geoscience, including marine geology and planetary sciences.

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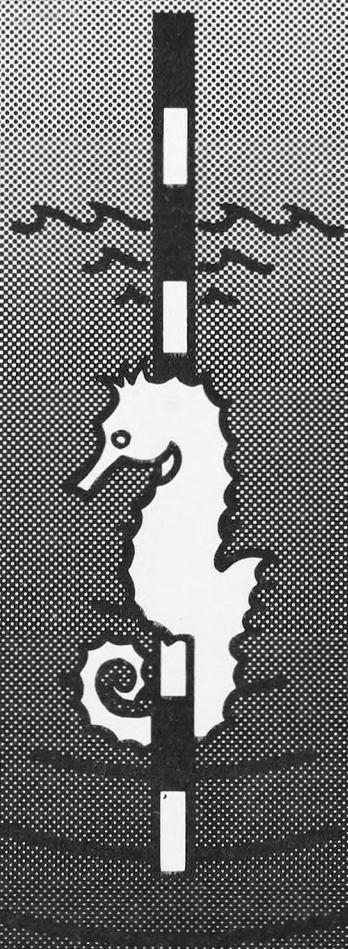
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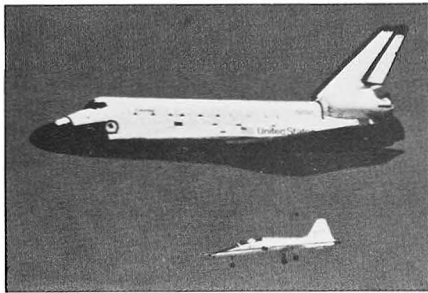
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# **INTERNATIONAL HYDROGRAPHIC REVIEW**

## FOREWORD

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

Original articles are welcomed 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 the 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, B.P. 445, MC 98011 MONACO Cedex (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, plus postage.

**The Directing Committee does not hold itself responsible for statements or opinions expressed by contributors to the Review.**

### Notes for contributors

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 large proportion of readers are necessarily reading the Review in a language that is not their mother tongue.

Any permission needed to incorporate material published elsewhere is the responsibility of authors, and it will be assumed that such permission has been obtained.

Texts should be submitted in English or French (or both), though by special arrangement articles in Spanish, Italian or German could be accepted for translation in the Bureau.

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 no responsibility can be taken for errors of fact or presentation.

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Printer's proofs are corrected in the Bureau and are not normally sent to authors.

PP-01

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