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THE INTERNATIONAL HYDROGRAPHIC REVIEW

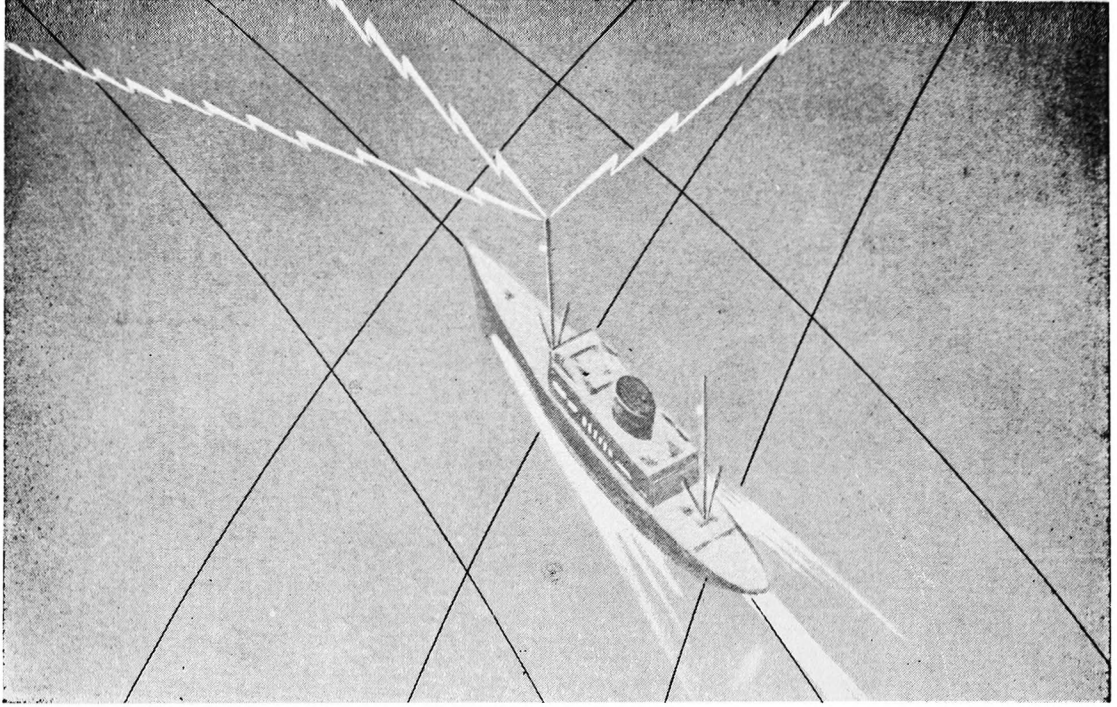


**INTERNATIONAL HYDROGRAPHIC BUREAU
MONACO**

Vol. XLVII, No 2

(N. 87 OF THE SERIES)

JULY 1970



INTERNATIONAL HYDROGRAPHIC BUREAU SPECIAL PUBLICATION 39

RADIO AIDS

TO MARITIME NAVIGATION AND HYDROGRAPHY

Supplementary Papers to S. P. 39
and
International Hydrographic Review Supplements

In 1956 the International Hydrographic Bureau issued Special Publication 39 entitled **Radio Aids to Maritime Navigation and Hydrography**. This volume described radio systems and instruments used in navigation and hydrographic surveying, and contained the following chapters and sections :

CHAPTER I. — Spectrum and Propagation of Radio Waves :

1. Frequency Spectrum of Electromagnetic and Radio Waves; 2. Propagation of Radio Waves.

CHAPTER II. — Radio Systems used in Maritime Navigation :

1. Radio Direction-finding; 2. Loran; 3. Decca; 4. Consol.

CHAPTER III. — Radio Systems used in Hydrographic Surveying :

1. Decca in Hydrographic Surveying; 2. Shoran; 3. Electronic Position Indicator (EPI); 4. Shoran and EPI in Offshore Hydrographic Surveying; 5. Raydist; 6. Lorac; 7. Rana; 8. Computation and Plotting of Hyperbolic Lattices on Survey Plotting Sheets.

CHAPTER IV. — Radar Technique :

1. Radar Technique in Navigation; 2. Use of Marine Radar in Surveying.

CHAPTER V. — Radio Systems in Geodetic Surveying :

1. Outline of Present Situation; 2. Operational Reports.

CHAPTER VI. — Reports on Use of Radio Systems in Hydrography :

1. Decca; 2. Shoran; 3. EPI; 4. Raydist; 5. Lorac; 6. Rana.

CHAPTER II. — Radio Systems used in Maritime Navigation :

1. Radio Direction-finding; 2. Loran; 3. Decca; 4. Consol; 5. Radar.

CHAPTER III. — Radio Systems used in Hydrographic Surveying :

1. Decca; 2. Shoran; 3. Electronic Position Indicator (E.P.I.); 4. Shoran and E.P.I. in Offshore Hydrographic Surveying; 5. Raydist; 6. Lorac; 7. Rana; 8. Hi-Fix; 9. Hydrodist; 10. Microwave Position-Fixing System (M.P.F.S.); 11. Derveaux; 12. Toran.

CHAPTER IV. — Computation and Plotting of Hyperbolic Lattices :

1. General; 2. Methods of the Danish Hydrographic Office; 3. Methods of the French Hydrographic Office; 4. Method of the U.S. Naval Oceanographic Office; 5. Method of the Swedish Hydrographic Department; 6. Methods of the Netherlands Hydrographic Office; 7. Methods of the British Naval Hydrographic Office.

CHAPTER V. — Electromagnetic Systems in Geodetic Surveying :

1. General Aspects and Use of Radio Positioning Systems; 2. Aga Geodimeter; 3. Tellurometer; 4. Micro-Dist (Electrotape).

This work, in loose-leaf form, thus permitting subsequent additions, is on sale at \$ 15.00. It includes about 550 pages and 270 figures.

It will continue to be brought up to date in the future by the publication of Supplementary Papers, whose issue will be announced in both the **International Hydrographic Review** and the **International Hydrographic Bulletin**.

SUPPLEMENTARY PAPERS TO SP 39

The 10 Supplementary Papers already published are the following :

PAPER 1: Tellurometer and Micro-Dist (44 pages), price \$1.00.

PAPER 2: Raydist, Hydrodist, M.P.F.S. (Microwave Position-fixing System) and Derveaux (72 pages), price \$2.00.

PAPER 3: Decca in Hydrographic Surveys, Lorac, Rana and Hi-Fix (88 pages), price \$2.50.

PAPER 4: Decca in Navigation (32 pages), price \$1.00.

PAPER 5: Loran (56 pages), price \$2.00.

PAPER 6: AGA Geodimeter (23 pages), price \$0.70.

PAPER 7: Shoran and EPI (46 pages), price \$1.20.

PAPER 8: Radio Direction - Finding, Consol, Radar (46 pages), price \$1.20.

PAPER 9: Introduction, Wave Propagation, Geodetic Use of Radio Positioning Systems (35 pages), price \$1.00.

PAPER 10: Toran, Computation and Plotting of Hyperbolic Lattices (88 pages), price \$2.50.

A Special Supplementary Paper containing the Preface, the Table of Contents and the General Index has been issued (23 pages), price : \$ 0.50.

Finally, a loose-leaf cover for filing the various Supplementary Papers making up the 2nd edition of the SP 39, is available at the price of \$ 1.50.

SUPPLEMENTS TO THE INTERNATIONAL HYDROGRAPHIC REVIEW

The purpose of these Supplements is to complete the basic work that SP 39 represents, by publishing articles, some of which give the practical points of view or the conclusions of the users of electromagnetic instruments and systems, and the others may be technical and scientific notes in connection with the theoretical subjects dealt with in SP 39. Other articles are either outlines of systems, whose development is contemplated or the improvement of those already existing.

A bibliography is also included in these Supplements.

The Supplements already published are :

- VOLUME 1, October 1960 (148 pages), price \$ 5.00.
- VOLUME 2, October 1961 (158 pages), price \$ 5.00.
- VOLUME 3, October 1962 (101 pages), price \$ 3.00.
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- VOLUME 7, June 1967 (65 pages), price \$ 2.00.

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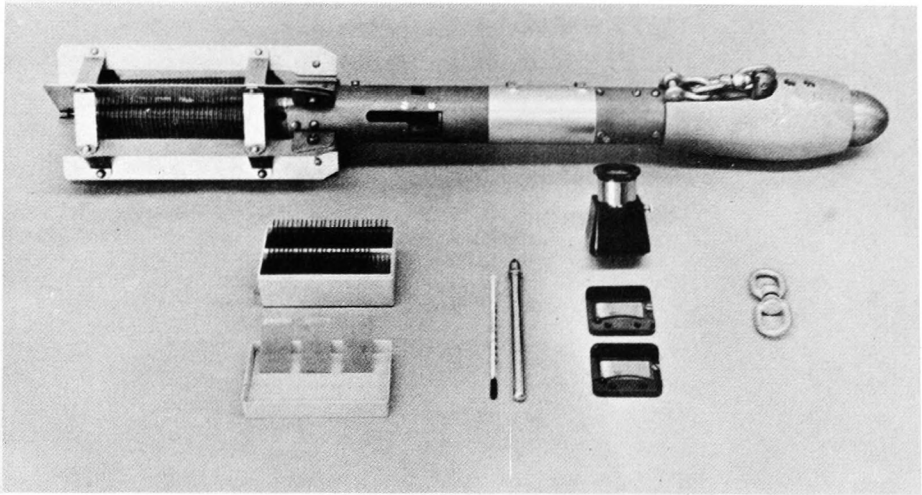
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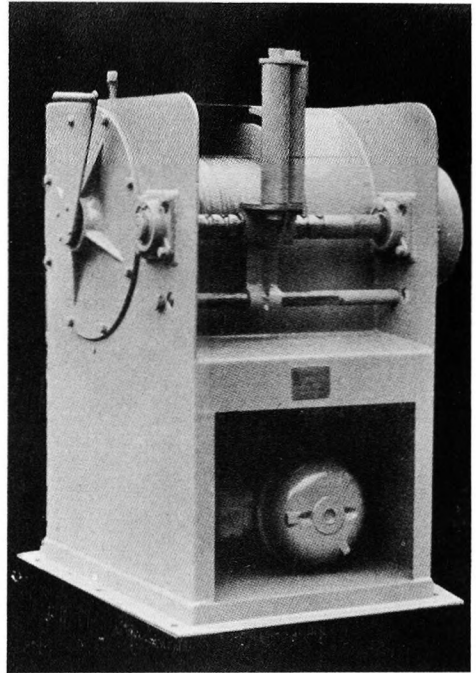
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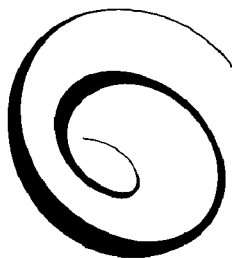
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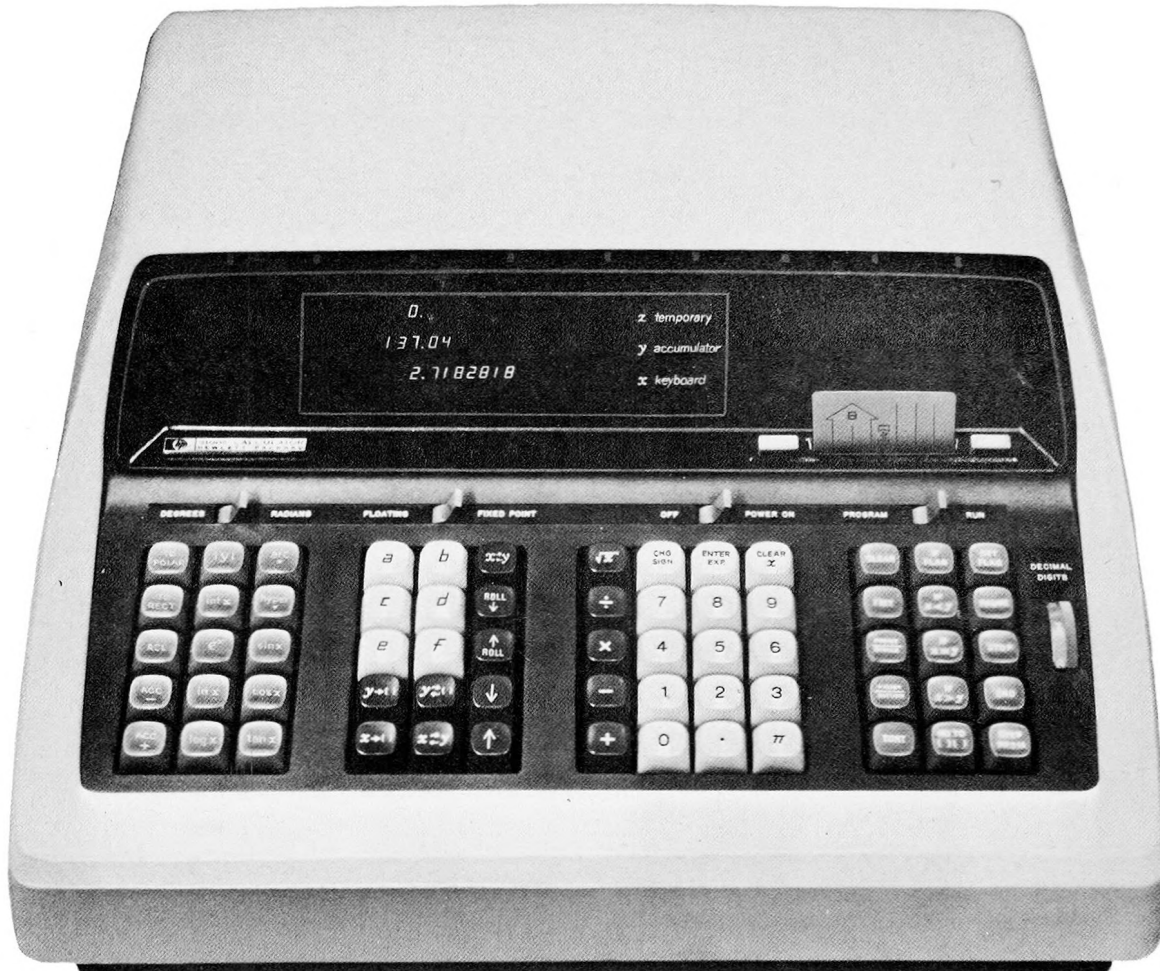
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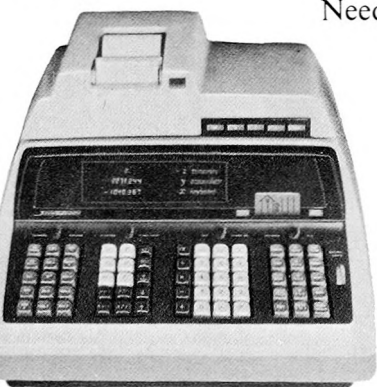
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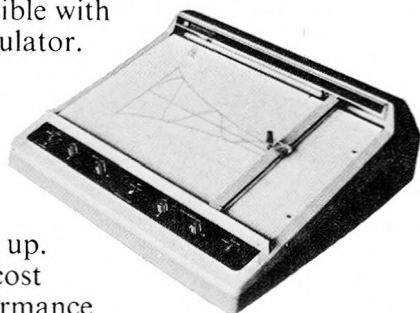


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An honorarium of 15 gold francs (about 5 U.S. dollars) per printed page of 600 words will be paid for all original articles accepted, including tables and diagrams but excluding photographs. In addition the Bureau will, upon request, supply each author free of charge with a total of 50 reprints of his article in one of the two official languages of the Bureau (or with 25 in English and 25 in French).

Articles should be in English or French, typewritten, double spaced, and if possible in duplicate. However, in order to achieve a well-balanced distribution of subject matter in the various issues of the Review the Directing Committee reserves the right to print articles in an appropriate issue.

Deadline notice

January issue will close 1 August

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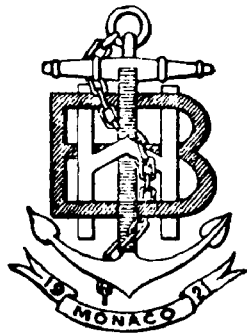
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