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THE INTERNATIONAL HYDROGRAPHIC REVIEW



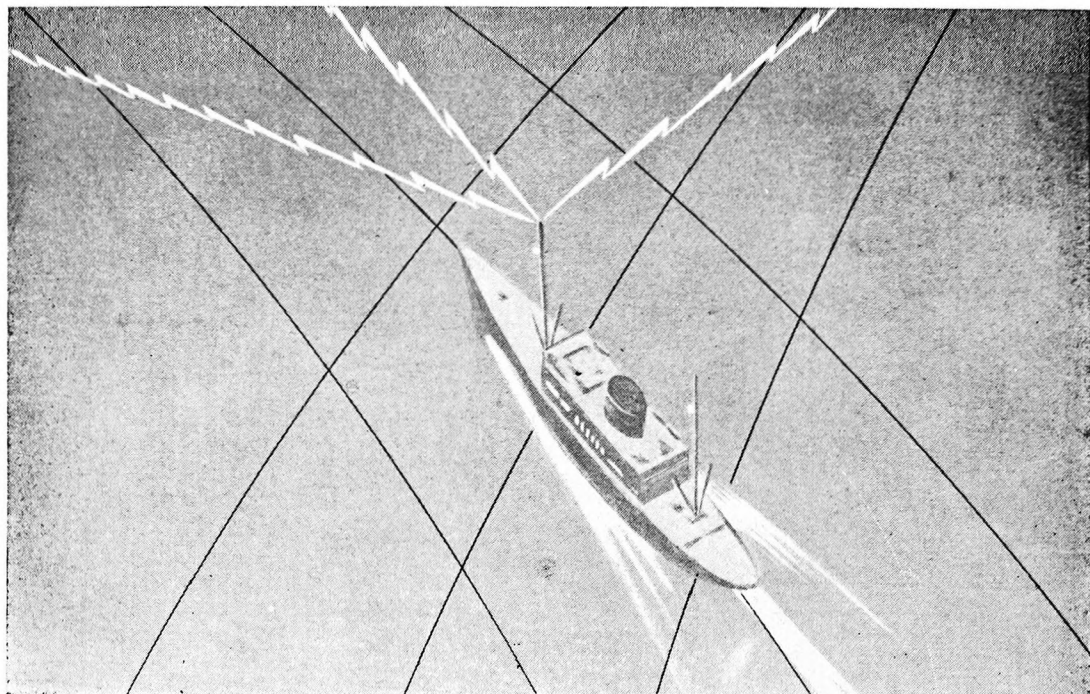
**INTERNATIONAL HYDROGRAPHIC BUREAU
MONACO**

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(N° 90 OF THE SERIES)

JANUARY 1972

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INTERNATIONAL HYDROGRAPHIC BUREAU SPECIAL PUBLICATION 39

2nd edition, 1965

RADIO AIDS

TO MARITIME NAVIGATION AND HYDROGRAPHY

Special Publication No. 39 of the International Hydrographic Bureau entitled **Radio Aids to Maritime Navigation and Hydrography** deals with the principles and gives a general description of radioelectric systems and instruments used in navigation and hydrographic surveying. The 2nd edition, 1965, of this work is a complete revision and recast of the 1st edition issued in 1956, with new additions. It includes the total number of Supplementary Papers which have already been published, and contains the following chapters and sections :

INTRODUCTION.

CHAPTER I. — Spectrum and Propagation of Electromagnetic Waves :

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

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 :

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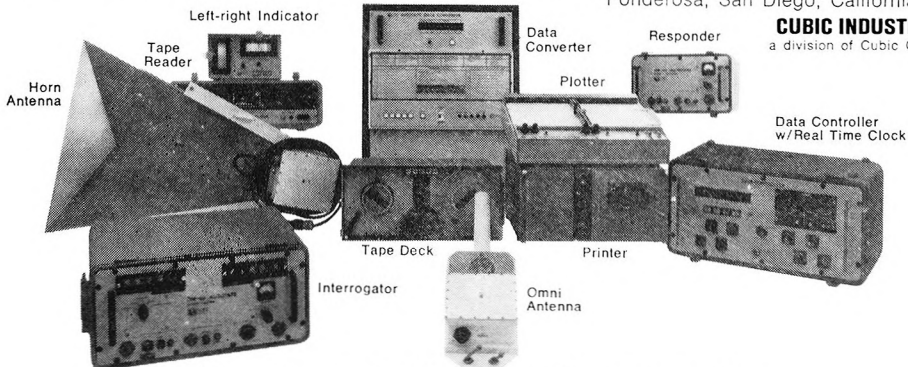
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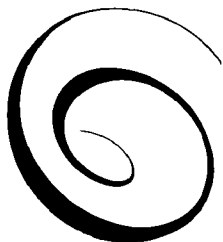
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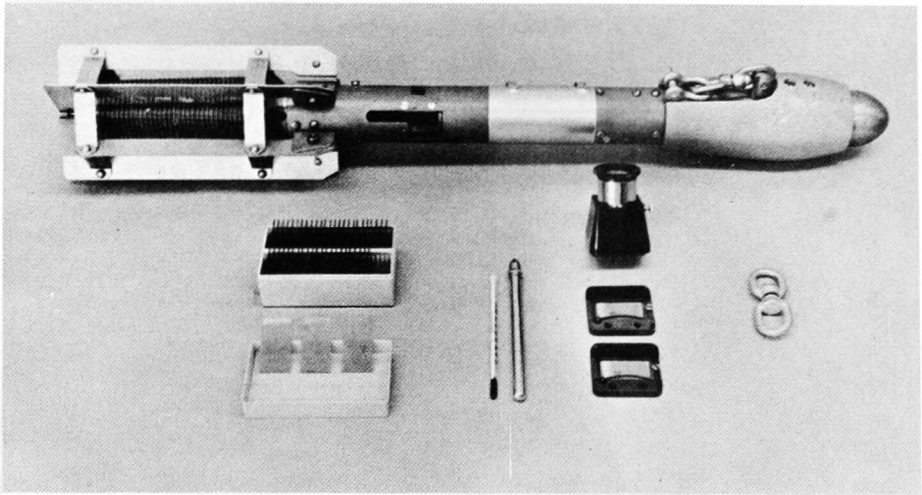
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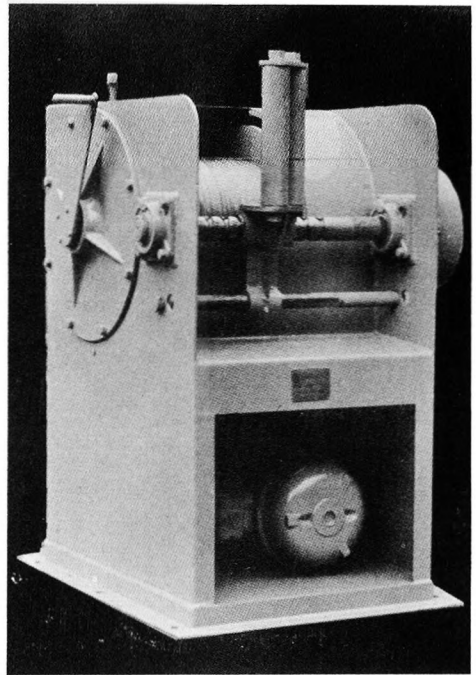
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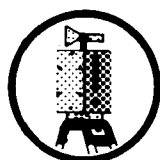
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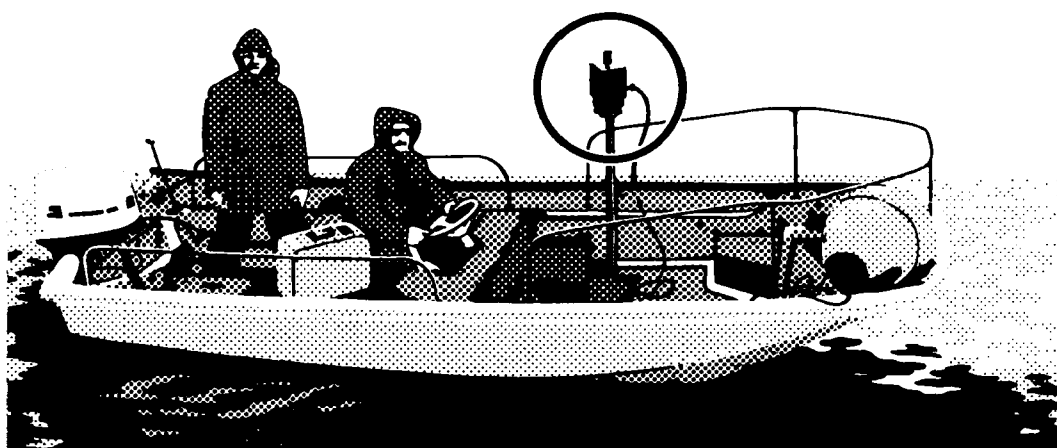
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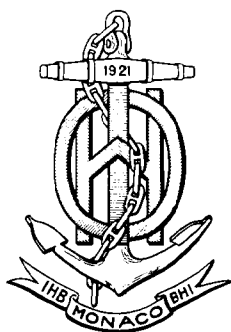
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JANUARY 1972

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