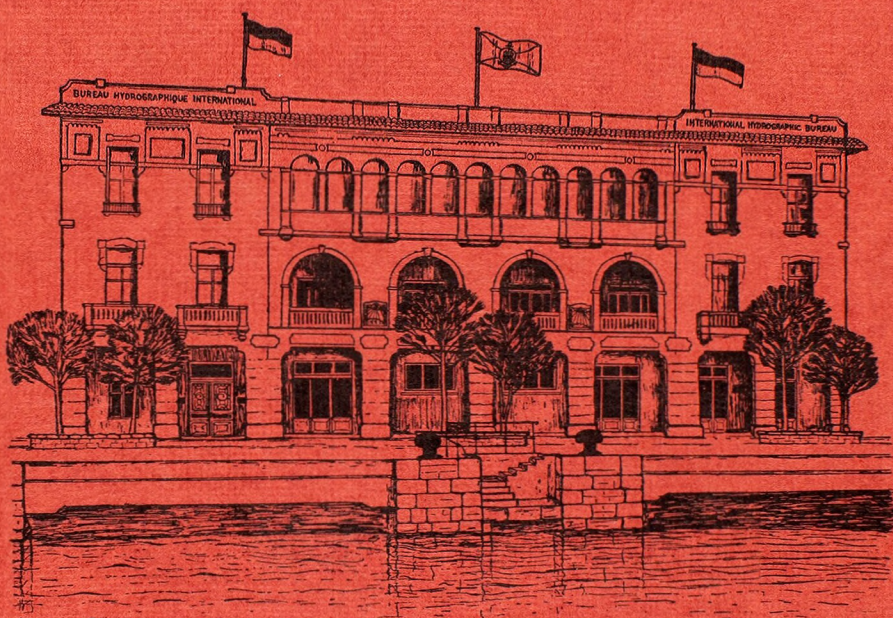


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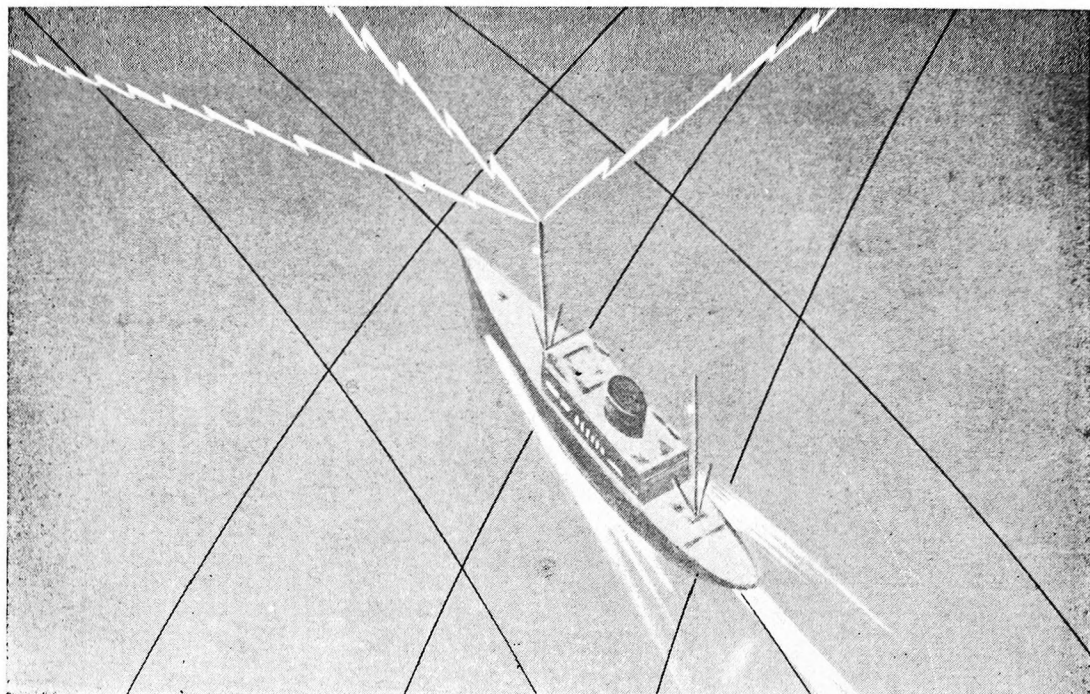
THE INTERNATIONAL HYDROGRAPHIC REVIEW



**INTERNATIONAL HYDROGRAPHIC BUREAU
MONACO**

Vol. XLIII, No 1
No 78 OF THE SERIES

JANUARY 1966



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, will be 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 (about 40 pages), price \$1.00.

PAPER 2: Raydist, Hydrodist, M. P. F. S. (Microwave Position-fixing System) and Derveaux (about 70 pages) price \$2.00.

PAPER 3: Decca in Hydrographic Surveys, Lorac, Rana and Hi-Fix (about 90 pages), price \$2.50.

PAPER 4: Decca in Navigation (about 30 pages), price \$1.00.

PAPER 5: Loran (about 60 pages), price \$2.00.

PAPER 6: AGA Geodimeter (about 25 pages), price \$0.70.

PAPER 7: Shoran and EPI (about 45 pages), price \$1.20.

PAPER 8: Radio Direction - Finding, Consol, Radar (about 45 pages), price \$1.20.

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

PAPER 10: Toran, Computation and Plotting of Hyperbolic Lattices (about 80 pages), price \$2.50.

A Special Supplementary Paper containing the Preface, the Table of Contents and the General Index was issued (about 15 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.

The Supplements already published are :

- VOLUME 1, October 1960 (about 150 pages), price \$ 5.00.
- VOLUME 2, October 1961 (about 150 pages), price \$ 5.00.
- VOLUME 3, November 1962 (about 100 pages), price \$ 3.00.
- VOLUME 4, December 1963 (about 130 pages), price \$ 4.00.
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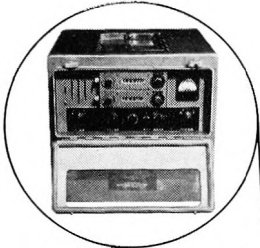
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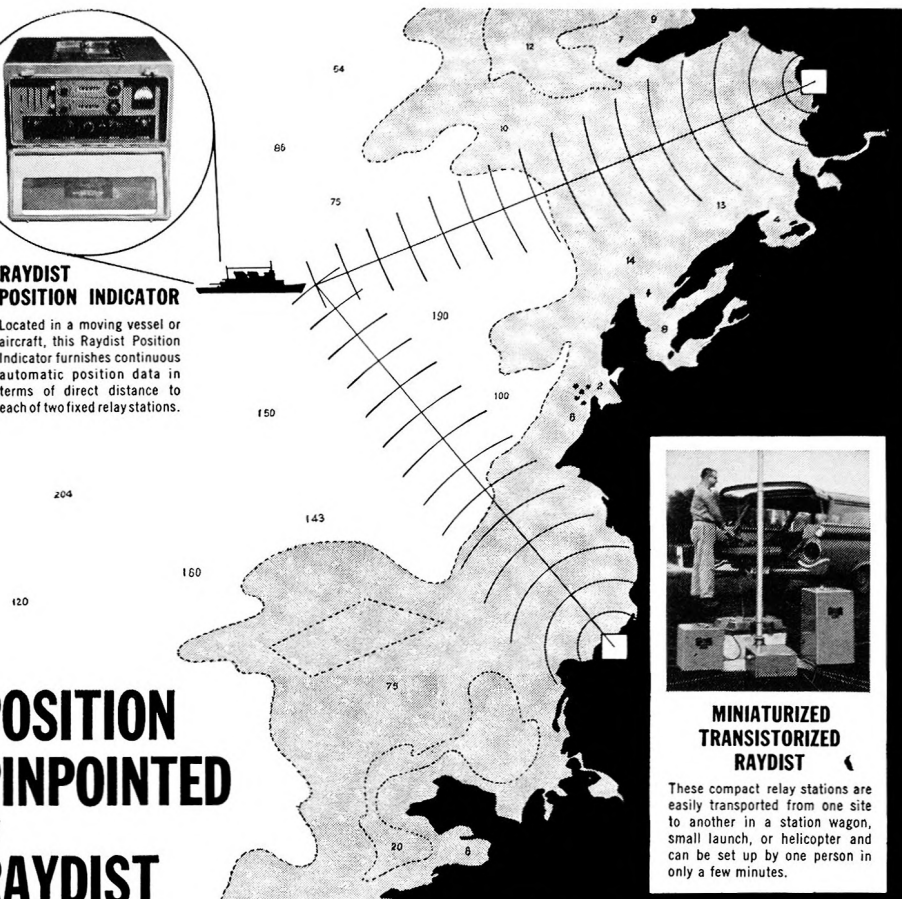
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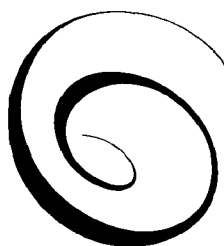
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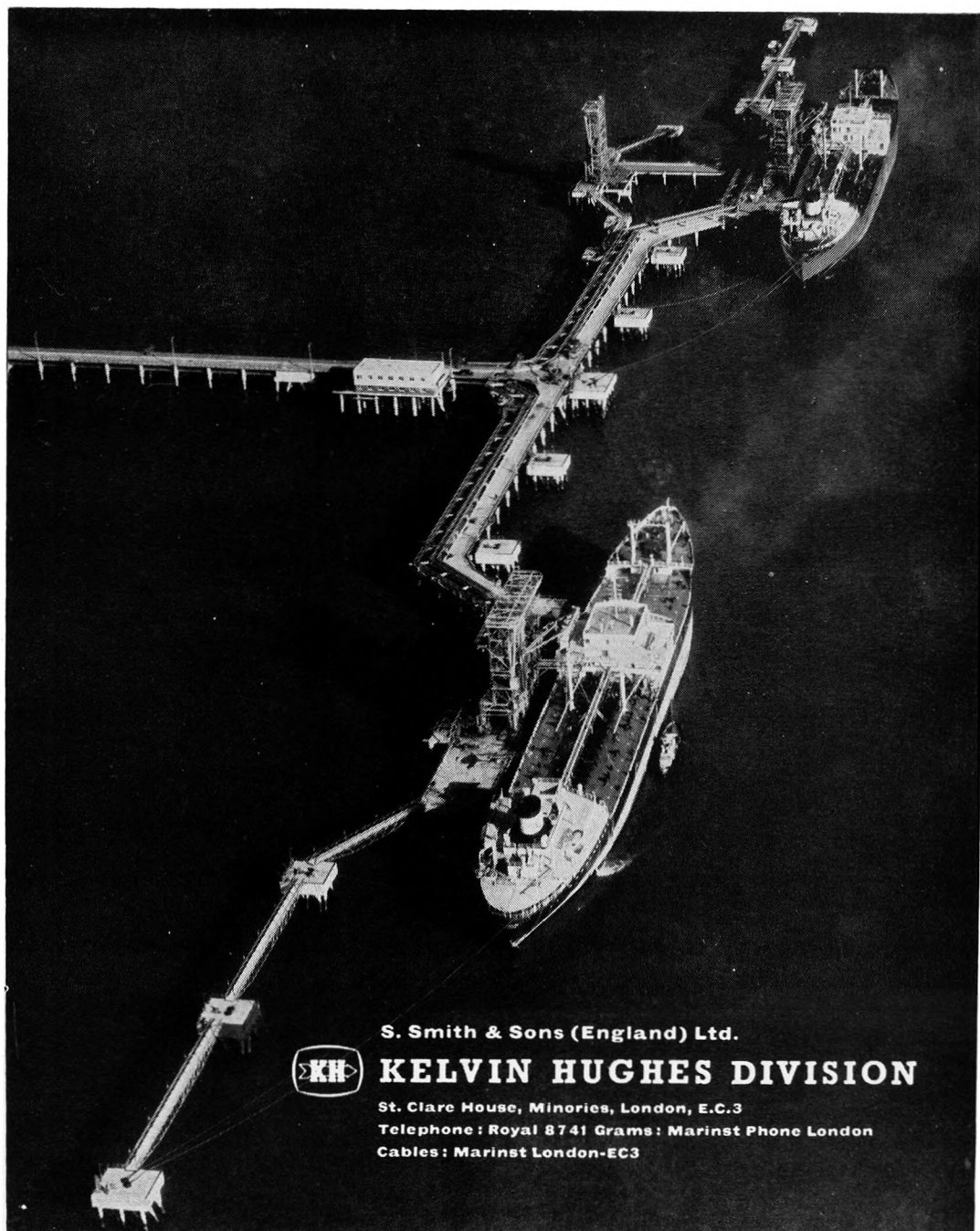
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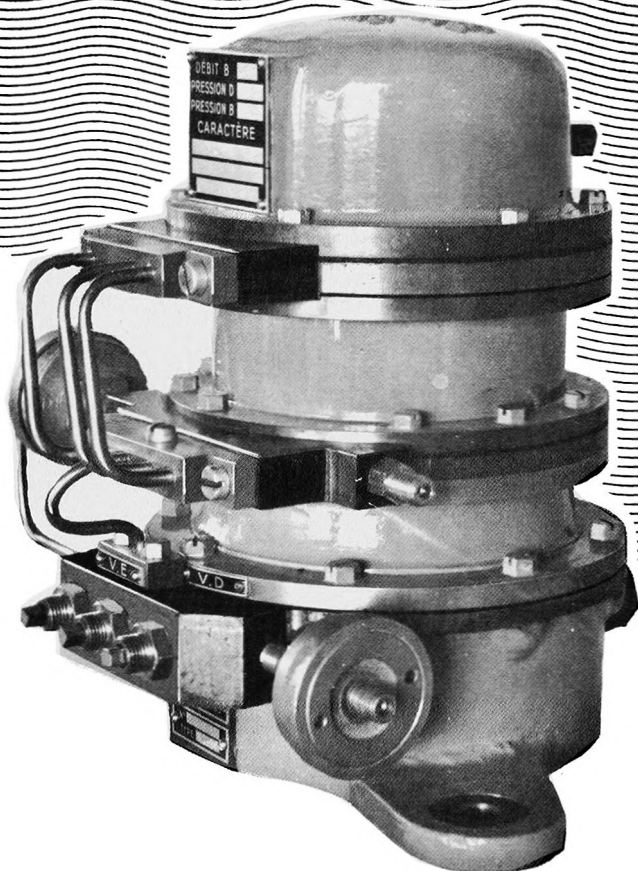
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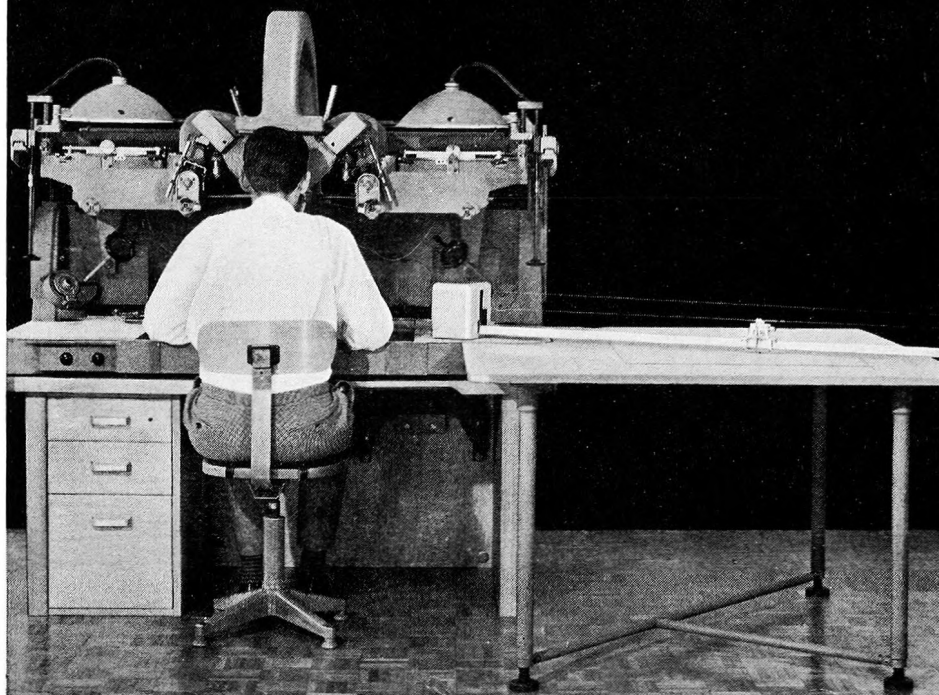
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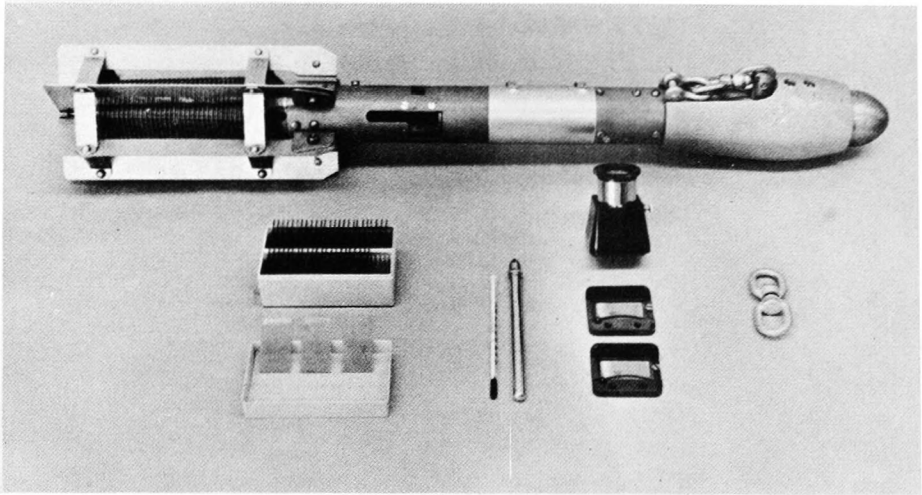
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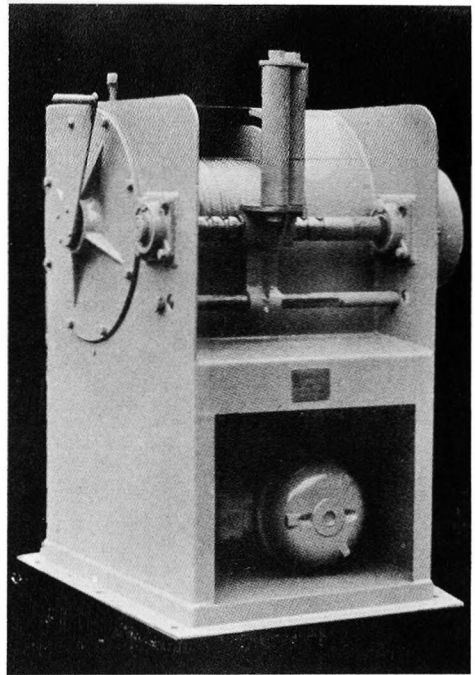
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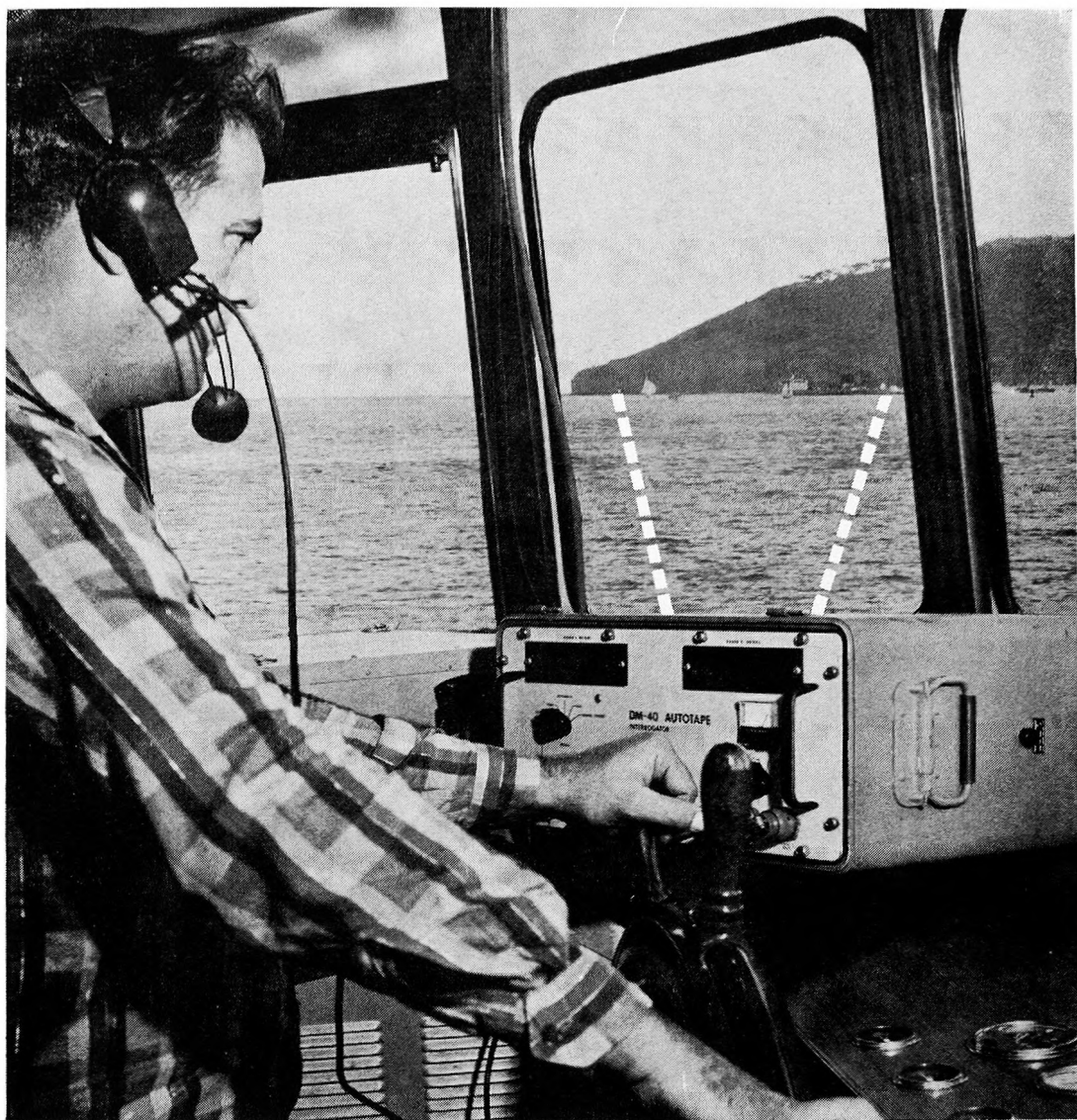
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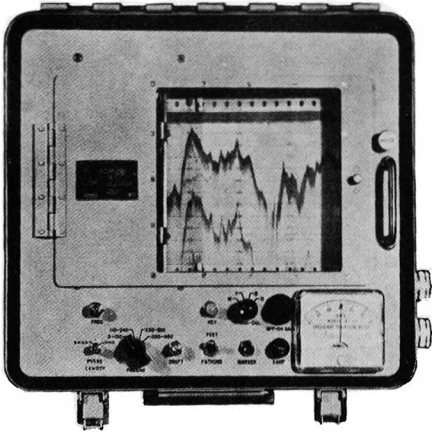


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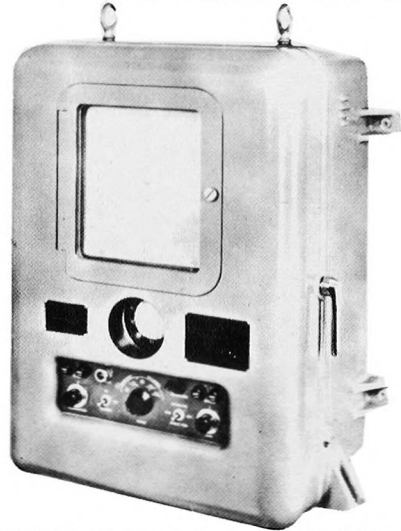


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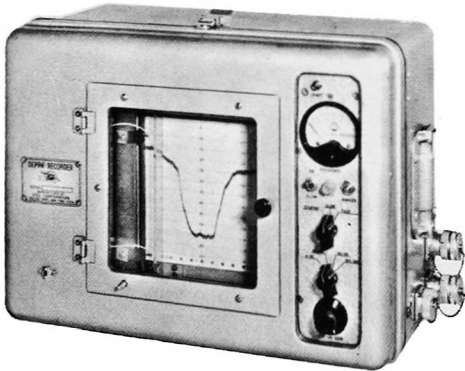
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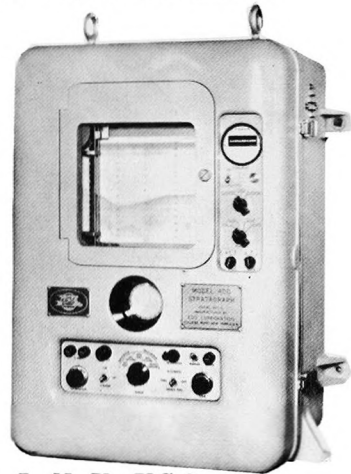


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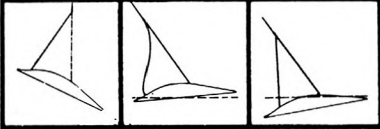
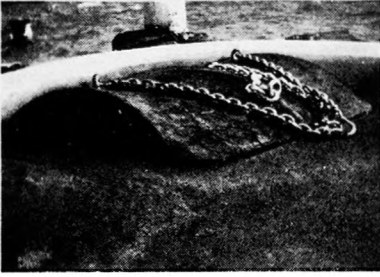
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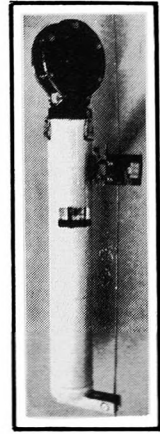
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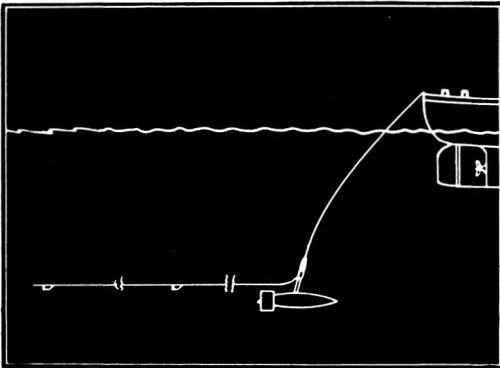
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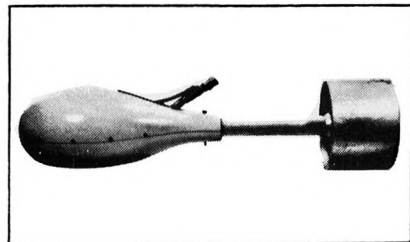
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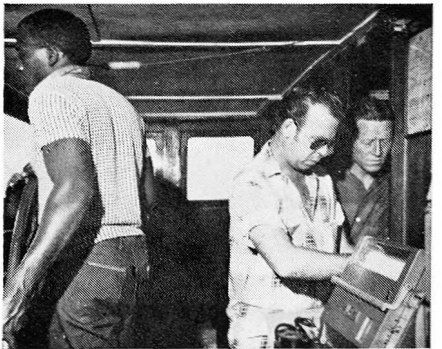
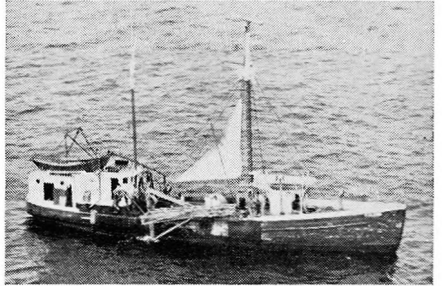
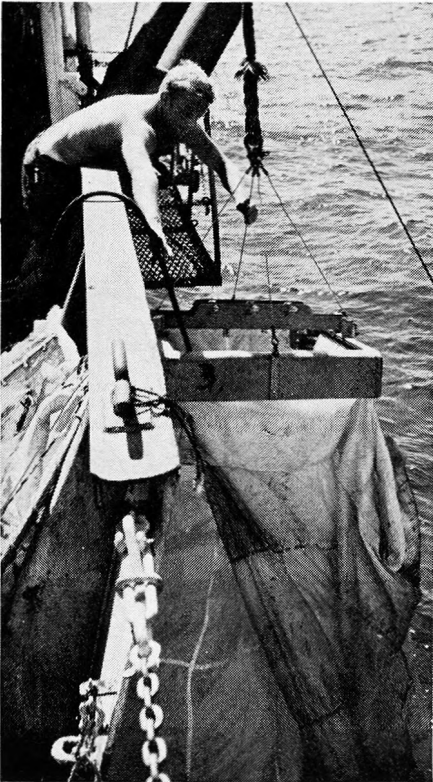
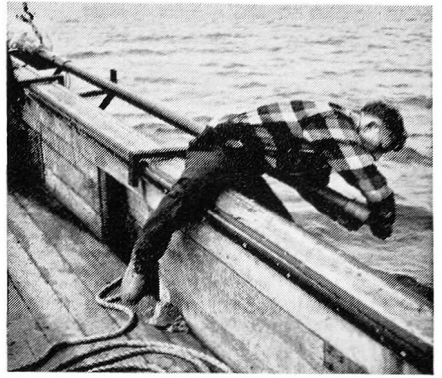


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FOREWORD

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The International Hydrographic Review is published in January and July of each year in both English and French editions. The Bureau welcomes articles on hydrographic, topographic and photogrammetric surveying, radio aids, navigation and allied subjects, new instruments and equipment, new hydrographic ships and boats as well as articles on the history and organization of hydrographic offices.

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).

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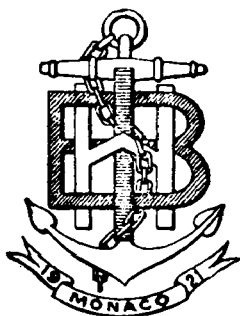
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THE INTERNATIONAL HYDROGRAPHIC REVIEW

Vol. XLIII

No 1



(No. 78 OF THE SERIES)

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