

FOREWORD

In 1956 the International Hydrographic Bureau issued Special Publication 39 : Radio Aids to Maritime Navigation and Hydrography, containing descriptions of radio positioning systems used in surface navigation and hydrography, and information as to their application. Owing to rapid technical developments in this field, the Bureau decided, with the States Members' consent, to bring it up to date by a continuous process, as follows:

(1) A new volume bound in loose-leaf form, to be known as *Supplementary Papers to SP 39*, will be compiled. Its contents will be restricted to basic information on the operation of new or modified equipment. The order of publication will depend on the varying rate of development of each instrument and on the degree of application. In theory, each chapter, or in certain instances each section of the current volume, will be replaced by a separate new pamphlet, which upon issuance shall replace the corresponding material appearing in the 1956 edition, which will become obsolete when all sections have been revised.

(2) Reports supplied by hydrographic offices or other organizations on instrumental operation will be published as *Supplements to the International Hydrographic Review*.

These supplements will first complete and later supersede the portions of SP 39 now containing such reports, and will have the following advantages :

(a) Distribution of operational reports shortly after their receipt at the Bureau;

(b) Publication of a greater number of reports;

(c) Use of the series of Review Supplements as addenda to the basic volume;

(d) A more compact, convenient basic volume.

A bibliography covering books and articles on radioelectric systems, and listing reports which do not appear in the supplements, but which can be found in other periodicals or text-books, will complete each supplement.

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Volumes 1, 2 and 3 of the supplements were published respectively in 1960, 1961 and 1962.

The present volume 4 contains articles which relate to the determination of positions by means of radioelectric systems, and others relative

to the determination of distances with the aid of electronic or electro-optical instruments.

Among the former appear three articles by J. Th. VERSTELLE which refer to one another and to which refers a fourth article by the same author, "Speed trials. Speed, length of approach run and speed reduction in turns. Effect of wind on speed", which appears in the January 1964 issue of the International Hydrographic Review.

By way of exception, this volume does not contain a bibliography.