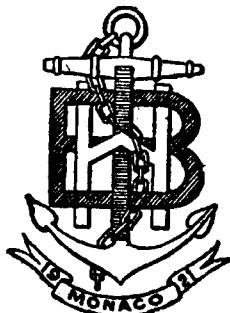


**THE  
HYDROGRAPHIC REVIEW**

THE  
**HYDROGRAPHIC  
REVIEW**

VOL. V

Nº 2



(Nº 10 OF THE SÉRIES)

PUBLISHED BY  
THE

**INTERNATIONAL HYDROGRAPHIC BUREAU**

3, Avenue du Port

**MONACO**  
(PRINCIPALITY)



**NOVEMBER 1928**

---

IMPRIMERIE F. ROBAUDY  
24, RUE HOCHÉ, - CANNES

## INTERNATIONAL HYDROGRAPHIC BUREAU

---

### LIST OF STATES WHICH ARE MEMBERS OF THE BUREAU

---

ARGENTINE  
BRAZIL  
BRITISH EMPIRE  
    UNITED KINGDOM  
    AUSTRALIA  
CHILE  
CHINA  
DENMARK  
EGYPT  
FRANCE  
GERMANY  
GREECE

ITALY  
JAPAN  
MONACO  
NETHERLANDS  
NORWAY  
PERU  
POLAND  
PORTUGAL  
SIAM  
SPAIN  
SWEDEN  
UNITED STATES OF AMERICA

### DIRECTING COMMITTEE

---

*President :* Rear-Admiral A. P. NIBLACK, United States Navy (retired).  
*Directors :* Ingénieur Hydrographe Général de réserve, P. de VANSSAY de BLAVOUS, (Marine Française).  
Capitano di Vascello L. TONTA, (Regia Marina Italiana).

---

### SECRETARY GENERAL

---

Commander G. B. SPICER-SIMSON, D. S. O., Royal British Navy (retired)

# IMPORTANT NOTICE

---

## CONSIGNMENTS TO THE BUREAU

---

The French Government has kindly consented to permit all instruments, documents and other articles necessary for the work of the Bureau to be imported from other countries free of all customs dues provided that the Ministry of Finance receives previous notification of the proposed importation.

The Secretary-General should therefore be notified of the intended despatch of any such articles and information on the following subjects should be given at the same time: —

- (A) Name of sender ;
- (B) Number of packages ;
- (C) Types of packages (box, bale, etc.) ;
- (D) Marks on the packages ;
- (E) Weight of each package ;
- (F) Schedule of contents ;
- (G) Date of despatch ;
- (H) Probable date and port of entry into France ;
- (I) Means of transport (Parcels post, steamer, rail, etc.).

Unless this information is given in advance the full customs dues are payable and these fall on the Bureau.

All packages should be addressed to: —

THE SECRETARY-GENERAL,

INTERNATIONAL HYDROGRAPHIC BUREAU,

MONACO (Principality).

## LIST OF CONTENTS

---

Terminology of Submarine Relief (A. P. NIBLACK) .....	9
The Survey Ship "Hydrographer" .....	25
The new Dutch Surveying Vessel "Willebrord Snellius" (J. L. H. LUYMES).....	29
Boats for Surveying Vessels (G. RABBENO) .....	33
Navigation by great circle sailing and radiogoniometric bearings (P. DE VANSAY DE BLAVOUS). .	39
A new type of Polar Chart (L. TONTA) .....	51
The present state of the study of navigation and nautical meteorology for transoceanic aerial traffic (SCHWEPPPE) .....	61
The recent determination of a worldwide series of fundamental longitudes (A. GOUGENHEIM)...	73
Use of wireless telegraphy in longitude determination.....	85
Note on certain shoals of the Newfoundland Bank (PELISSIER).....	93
Offshore Soundings — Use of floating beacons .....	101
Echo-sounding VI.....	107
Phenomena observed in connection with radio-acoustic position finding and echo-sounding —	
Shielding of the Hydrophones (JERRY H. SERVICE) .....	141
The Institute of Optics, Paris .....	145
Experiment ground for maritime signals in the vicinity of Berlin .....	149
Duplex directional fog signal.....	151
New speed and direction recorder for submarine currents (P. IDRAC) .....	155
Bottom Samplers ..	159
Quadrant with spherical level for fixing the position in a balloon (M. L. FAVÉ) .....	161
Schwarzchild's air navigation sextant with artificial horizon.....	169
Sextant fitted with artificial horizon, by W. LUDOLPH, A. G. — Bremerhaven.....	173
A new form of sextant .....	177
New Chasselon Theodolite with microscopes .....	183
Uniformity in Symbols of Coastal Aviation Charts (A. P. NIBLACK).....	187
Submarine phonotelemetry .....	189
Synchronous signalling .....	191
Direction finding in navigation .....	193
On cotidal maps (H. A. MARMER) .....	195
The tides of the Arctic Ocean (R. STERNECK) .....	207
Study of the régime of coastal waters by means of fixed automatic devices (S. WOSKRESSENSKY). .	215
Expedition to Baffin Bay .....	223
The Great North Atlantic Current .....	227
Suppression of Contacts in astronomical clocks (P. LEJAY) .....	229
Photographic Apparatus "The Hypergonar" (Henri CHRÉTIEN) .....	233
<b>HYDROGRAPHIC BIBLIOGRAPHY. — I. Extracts and Reviews .....</b>	<b>235</b>
<i>Tables pour observations à l'astrolabe à prisme.</i>	
<i>Hydrographic Manual.</i>	
<i>Technische Navigation und Meteorologie.</i>	
<i>Verhandlungen der Baltischen Geodastischen Kommission.</i>	
<i>Instructions for Tide Observations.</i>	
<i>Resumen de los Trabajos de la Comision Hidrografica de España.</i>	
<b>BIBLIOGRAPHY. — II. Books of Reference .....</b>	<b>241</b>
<b>BIBLIOGRAPHY. — III. Documentary Bibliography .....</b>	<b>253</b>

---

The Directing Committee is not responsible for statements made or opinions expressed in articles or papers published in this Review, which are written by Authors who are not members of the Directing Committee or of the Personnel of the International Hydrographic Bureau.